

Appendix 2: Employment Variable Creation

Hourly Rate of Pay, Hourly Monetary Compensation, and Job Length < 13 Weeks

Variables Created: CV_HRLY_PAY
CV_HRLY_COMPENSATION
CV_JOB<13_WKS

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
PUBID	PUBID	E1020522	YEMP-100205.02.02
E200A	YEMP-200A	E1020523	YEMP-100205.02.03
E2120011	YEMP-21200.01~000001	E1020524	YEMP-100205.02.04
E2120012	YEMP-21200.01~000002	E1020525	YEMP-100205.02.05
E2120013	YEMP-21200.01~000003	E1020526	YEMP-100205.02.06
E2120014	YEMP-21200.01~000004	E1020532	YEMP-100205.03.02
E2120015	YEMP-21200.01~000005	E1020533	YEMP-100205.03.03
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E2120021	YEMP-21200.02~000001	E1020535	YEMP-100205.03.05
E2120022	YEMP-21200.02~000002	E1020536	YEMP-100205.03.06
E2120023	YEMP-21200.02~000003	E1020542	YEMP-100205.04.02
E2120024	YEMP-21200.02~000004	E1020543	YEMP-100205.04.03
E2120025	YEMP-21200.02~000005	E1020544	YEMP-100205.04.04
E2120026	YEMP-21200.02~000006	E1020545	YEMP-100205.04.05
E2120031	YEMP-21200.03~000001	E1020552	YEMP-100205.05.02
E2120032	YEMP-21200.03~000002	E1020553	YEMP-100205.05.03
E2120033	YEMP-21200.03~000003	E1020554	YEMP-100205.05.04
E2120034	YEMP-21200.03~000004	E1021412	YEMP-100214.01.02
E2120035	YEMP-21200.03~000005	E1021413	YEMP-100214.01.03
E2120036	YEMP-21200.03~000006	E1021414	YEMP-100214.01.04
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E2120042	YEMP-21200.04~000002	E1021416	YEMP-100214.01.06
E2120043	YEMP-21200.04~000003	E1021422	YEMP-100214.02.02
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E2120046	YEMP-21200.04~000006	E1021425	YEMP-100214.02.05
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E2120053	YEMP-21200.05~000003	E1021433	YEMP-100214.03.03
E2120054	YEMP-21200.05~000004	E1021434	YEMP-100214.03.04
E2120055	YEMP-21200.05~000005	E1021435	YEMP-100214.03.05

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E2120074	YEMP-21200.07~000004	E10214AAA14	YEMP-100214AAA.01.04
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E245026	YEMP-24502.06	E10214AAB23	YEMP-100214AAB.02.03
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E356003	YEMP-35600.03	E102322	YEMP-100232.02.03
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E2160035	YEMP-21600.03.05	ECURR4	YEMP-CURFLAG.04
E2160036	YEMP-21600.03.06	ECURR5	YEMP-CURFLAG.05
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E2250036	YEMP-22500.03.06	E229005	YEMP-22900.05
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E2251026	YEMP-22510.02.06	E239014	YEMP-23901.04
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E2251074	YEMP-22510.07.04	E344025	YEMP-34402.05
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E2253013	YEMP-22530.01.03	E34402AAB3	YEMP-34402AAB.03
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E2253015	YEMP-22530.01.05	E34402AAB5	YEMP-34402AAB.05
E2253022	YEMP-22530.02.02	E34402AAD1	YEMP-34402AAD.01
E2253023	YEMP-22530.02.03	E34402AAD2	YEMP-34402AAD.02
E2253024	YEMP-22530.02.04	E34402AAD3	YEMP-34402AAD.03
E2253025	YEMP-22530.02.05	E34402AAD4	YEMP-34402AAD.04
E2253026	YEMP-22530.02.06	E34402AAD5	YEMP-34402AAD.05
E2253032	YEMP-22530.03.02	E34402AB1	YEMP-34402AB.01
E2253033	YEMP-22530.03.03	E34402AB2	YEMP-34402AB.02
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E2253512	YEMP-22535.01.02	E34402AB5	YEMP-34402AB.05
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E2255014	YEMP-22550.01.04	E2260417	YEMP-22604.01~000007
E2255016	YEMP-22550.01.06	E2260418	YEMP-22604.01~000008
E2255022	YEMP-22550.02.02	E2260419	YEMP-22604.01~000009
E2255023	YEMP-22550.02.03	E2260410	YEMP-22604.01~000010
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E2255025	YEMP-22550.02.05	E2260422	YEMP-22604.02~000002
E2255026	YEMP-22550.02.06	E2260423	YEMP-22604.02~000003
E2255032	YEMP-22550.03.02	E2260424	YEMP-22604.02~000004
E2255033	YEMP-22550.03.03	E2260425	YEMP-22604.02~000005
E2255034	YEMP-22550.03.04	E2260426	YEMP-22604.02~000006
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E226112	YEMP-22611.02.03	E2260430	YEMP-22604.03~000010
E226113	YEMP-22611.03.03	E2260441	YEMP-22604.04~000001
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E226134	YEMP-22613.04.05	E2260446	YEMP-22604.04~000006
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E226271	YEMP-22627.01.04	E226092	YEMP-22609.02.01
E226281	YEMP-22628.01.05	E226093	YEMP-22609.03.01
E226282	YEMP-22628.02.05	E226101	YEMP-22610.01.02
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E226284	YEMP-22628.04.05	E226103	YEMP-22610.03.02
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E22628E1	YEMP-22628E.01.05	E226263	YEMP-22626.03.01
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E22628E4	YEMP-22628E.04.05	E22626CB1	YEMP-22626CB.01.01
E226292	YEMP-22629.02.06	E22626E1	YEMP-22626E.01.01
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E22629CB3	YEMP-22629CB.03.06	E38000B3	YEMP-38000B.03
E226313	YEMP-22631.03.08	E38000B4	YEMP-38000B.04
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E226322	YEMP-22632.02.09	E38000F3	YEMP-38000F.03
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E380022	YEMP-38002.02	E38000F5	YEMP-38000F.05
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E380024	YEMP-38002.04	E380022	YEMP-38002.02

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E380033	YEMP-38003.03	E380131	YEMP-38013.01
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E380121	YEMP-38012.01	E380133	YEMP-38013.03
E380122	YEMP-38012.02	E380134	YEMP-38013.04
E380123	YEMP-38012.03	E380135	YEMP-38013.05
E380124	YEMP-38012.04	E380136	YEMP-38013.06
E38012AAA1	YEMP-38012AAA.01	E380141	YEMP-38014.01
E38012AAB1	YEMP-38012AAB.01	E380142	YEMP-38014.02
E38012B1	YEMP-38012B.01	E380143	YEMP-38014.03
E38012B3	YEMP-38012B.03	E380144	YEMP-38014.04
E381021	YEMP-38102.01	E380145	YEMP-38014.05
E381022	YEMP-38102.02	E380146	YEMP-38014.06
E381023	YEMP-38102.03	E380231	YEMP-38023.01
E381051	YEMP-38105.01	E380232	YEMP-38023.02
E381052	YEMP-38105.02	E380233	YEMP-38023.03
E381053	YEMP-38105.03	E380234	YEMP-38023.04
E382011	YEMP-38201.01	E380235	YEMP-38023.05
E382012	YEMP-38201.02	E380236	YEMP-38023.06
E382013	YEMP-38201.03	E38024B1	YEMP-38024B.01
E382014	YEMP-38201.04	E38024B2	YEMP-38024B.02
E382021	YEMP-38202.01	E38024B3	YEMP-38024B.03
E382022	YEMP-38202.02	E38024B4	YEMP-38024B.04
E382023	YEMP-38202.03	E38024C1	YEMP-38024C.01
E382024	YEMP-38202.04	E38024C2	YEMP-38024C.02
E382111	YEMP-38211.01	E38024C3	YEMP-38024C.03
E382112	YEMP-38211.02	E38024C4	YEMP-38024C.04
E382113	YEMP-38211.03	E380271	YEMP-38027.01
E382114	YEMP-38211.04	E380272	YEMP-38027.02
E38211B1	YEMP-38211B.01	E380273	YEMP-38027.03
E38329B1	YEMP-38329B.01	E380274	YEMP-38027.04
E38329B2	YEMP-38329B.02	E381021	YEMP-38102.01
E38329B3	YEMP-38329B.03	E381022	YEMP-38102.02
E38329B4	YEMP-38329B.04	E381023	YEMP-38102.03
E38329D1	YEMP-38329D.01	E381031	YEMP-38103.01
E38329D2	YEMP-38329D.02	E381032	YEMP-38103.02
E38329D3	YEMP-38329D.03	E381033	YEMP-38103.03
E38329D4	YEMP-38329D.04	E381061	YEMP-38106.01
E38329I1	YEMP-38329I.01	E381062	YEMP-38106.02
E38329I2	YEMP-38329I.02	E381063	YEMP-38106.03
E38329IB1	YEMP-38329IB.01	E381064	YEMP-38106.04
E38329IB2	YEMP-38329IB.02	E381065	YEMP-38106.05

E38329K1	YEMP-38329K.01	E381071	YEMP-38107.01
E38329K2	YEMP-38329K.02	E381072	YEMP-38107.02
E38329K3	YEMP-38329K.03	E381073	YEMP-38107.03
E38329K4	YEMP-38329K.04	E381074	YEMP-38107.04
E3840711	YEMP-38407.01.01	E381161	YEMP-38116.01
E3840712	YEMP-38407.01.02	E381162	YEMP-38116.02
E3840713	YEMP-38407.01.03	E381163	YEMP-38116.03
E3840714	YEMP-38407.01.04	E381164	YEMP-38116.04
E3840715	YEMP-38407.01.05	E38116B2	YEMP-38116B.02
E3840721	YEMP-38407.02.01	E831001	YEMP-83100.01
E3840722	YEMP-38407.02.02	E831002	YEMP-83100.02
E3840723	YEMP-38407.02.03	E831003	YEMP-83100.03
E3840724	YEMP-38407.02.04	E831004	YEMP-83100.04
E3840725	YEMP-38407.02.05	E831005	YEMP-83100.05
E3840731	YEMP-38407.03.01	E831006	YEMP-83100.06
E3840732	YEMP-38407.03.02	E831007	YEMP-83100.07
E3840733	YEMP-38407.03.03	E868001	YEMP-86800.01
E3840735	YEMP-38407.03.05	E868002	YEMP-86800.02
E3840741	YEMP-38407.04.01	E868003	YEMP-86800.03
E3840744	YEMP-38407.04.04	E868004	YEMP-86800.04
E3841611	YEMP-38416.01.01	E868005	YEMP-86800.05
E3841612	YEMP-38416.01.02	E868006	YEMP-86800.06
E3841613	YEMP-38416.01.03	E869001	YEMP-86900.01
E3841614	YEMP-38416.01.04	E869002	YEMP-86900.02
E3841615	YEMP-38416.01.05	E869003	YEMP-86900.03
E3841621	YEMP-38416.02.01	E869004	YEMP-86900.04
E3841622	YEMP-38416.02.02	E869005	YEMP-86900.05
E3841623	YEMP-38416.02.03	E869006	YEMP-86900.06
E3841624	YEMP-38416.02.04	E869007	YEMP-86900.07
E3841625	YEMP-38416.02.05	E871001	YEMP-87100.01
E3841631	YEMP-38416.03.01	E871002	YEMP-87100.02
E3841632	YEMP-38416.03.02	E871003	YEMP-87100.03
E3841633	YEMP-38416.03.03	E871004	YEMP-87100.04
E3841635	YEMP-38416.03.05	E871006	YEMP-87100.06
E3841641	YEMP-38416.04.01	E878001	YEMP-87800.01
E3841644	YEMP-38416.04.04	E880001	YEMP-88000.01
E38416I11	YEMP-38416I.01.01	E880002	YEMP-88000.02
E38416I12	YEMP-38416I.01.02	E880003	YEMP-88000.03
E38416I13	YEMP-38416I.01.03	E880004	YEMP-88000.04
E38416I14	YEMP-38416I.01.04	E880005	YEMP-88000.05
E38416I15	YEMP-38416I.01.05	E880006	YEMP-88000.06
E38416I25	YEMP-38416I.02.05	E880007	YEMP-88000.07
E38416I35	YEMP-38416I.03.05	E973001	YEMP-97300.01

E38416IB11	YEMP-38416IB.01.01	E973002	YEMP-97300.02
E38416IB12	YEMP-38416IB.01.02	E973003	YEMP-97300.03
E38416IB13	YEMP-38416IB.01.03	E973004	YEMP-97300.04
E38416IB14	YEMP-38416IB.01.04	E973005	YEMP-97300.05
E38416IB15	YEMP-38416IB.01.05	E973006	YEMP-97300.06
E38416IB25	YEMP-38416IB.02.05	E974001	YEMP-97400.01
E38416IB35	YEMP-38416IB.03.05	E974002	YEMP-97400.02
E38416K11	YEMP-38416K.01.01	E974003	YEMP-97400.03
E38416K12	YEMP-38416K.01.02	E974004	YEMP-97400.04
E38416K13	YEMP-38416K.01.03	E975001	YEMP-97500.01
E38416K15	YEMP-38416K.01.05	E975002	YEMP-97500.02
E38416K21	YEMP-38416K.02.01	E975003	YEMP-97500.03
E38416K23	YEMP-38416K.02.03	E983001	YEMP-98300.01
E38416K25	YEMP-38416K.02.05	E983002	YEMP-98300.02
E38416K41	YEMP-38416K.04.01	E983003	YEMP-98300.03
E885011	YEMP-88501.01	E983005	YEMP-98300.05
E885012	YEMP-88501.02	E983006	YEMP-98300.06
E885013	YEMP-88501.03	E984021	YEMP-98402.01
E885014	YEMP-88501.04	E984022	YEMP-98402.02
E885015	YEMP-88501.05	E984023	YEMP-98402.03
E885016	YEMP-88501.06	E984024	YEMP-98402.04
E885021	YEMP-88502.01	E984025	YEMP-98402.05
E885022	YEMP-88502.02	E984026	YEMP-98402.06
E885023	YEMP-88502.03	E98402CAA1	YEMP-98402CAA.01
E885024	YEMP-88502.04	E98402CAA2	YEMP-98402CAA.02
E885025	YEMP-88502.05	E98402CAA3	YEMP-98402CAA.03
E885026	YEMP-88502.06	E98402CAA4	YEMP-98402CAA.04
E885121	YEMP-88512.01	E98402CAA5	YEMP-98402CAA.05
E885122	YEMP-88512.02	E98402CAA6	YEMP-98402CAA.06
E885123	YEMP-88512.03	E98402CAB1	YEMP-98402CAB.01
E885124	YEMP-88512.04	E98402CAB2	YEMP-98402CAB.02
E885125	YEMP-88512.05	E98402CAB3	YEMP-98402CAB.03
E885126	YEMP-88512.06	E98402CAB4	YEMP-98402CAB.04
E88512B1	YEMP-88512B.01	E98402CAB5	YEMP-98402CAB.05
E984031	YEMP-98403.01	E98402CAB6	YEMP-98402CAB.06
E984032	YEMP-98403.02	E98402D1	YEMP-98402D.01
E984033	YEMP-98403.03	E98402D2	YEMP-98402D.02
E98404A1	YEMP-98404A.01	E98402D3	YEMP-98402D.03
E98404A2	YEMP-98404A.02	E98402D4	YEMP-98402D.04
E98404A3	YEMP-98404A.03	E984291	YEMP-98429.01
E984141	YEMP-98414.01	E984292	YEMP-98429.02
E984142	YEMP-98414.02	E984293	YEMP-98429.03
E984143	YEMP-98414.03	E995001	YEMP-99500.01

E98414AAA1	YEMP-98414AAA.01	E995002	YEMP-99500.02
E98414AAB1	YEMP-98414AAB.01	E995003	YEMP-99500.03
E98414B1	YEMP-98414B.01	E1002301	YEMP-100230.01.01
E995001	YEMP-99500.01	E1002302	YEMP-100230.02.01
E995002	YEMP-99500.02	E1002311	YEMP-100231.01.02
E995003	YEMP-99500.03	E1002312	YEMP-100231.02.02
E1020512	YEMP-100205.01.02	E1002481	YEMP-100248.01.01
E1020513	YEMP-100205.01.03	E1002482	YEMP-100248.02.01
E1020514	YEMP-100205.01.04	E100248E1	YEMP-100248E.01.01
E1020515	YEMP-100205.01.05		
E1020516	YEMP-100205.01.06		

Codes for Created Variable

Note that hourly rate of pay is reported with two implied decimal places.

This program creates the hourly rate of pay for NLSY97 respondents. The hourly rate of pay is constructed from stop date information for respondents whose job lasted more than 13 weeks. For all other respondents the start wage is used.

In addition, this program creates an hourly monetary compensation variable for NLSY97 respondents. This variable that includes information about all compensation received by the respondent, such as tips, bonuses, commissions, overtime, etc., in the calculation. Hourly monetary compensation differs from hourly rate of pay variable, which calculates only the base pay rate. This variable is constructed from stop date information for respondents with jobs longer than 13 weeks and start date information for other.

Finally, a variable indicating whether the jobs lasted more than 13 weeks is also created. There are up to 9 jobs reported, so each variable is created for 9 jobs.

***** Define arrays used in the overtime part;

```

array e24501 e245011-e245019;
array e24502 e245021-e245029;
array e24514 e245141-e245149;
array e24514b e24514b1-e24514b9;
array e24514aab e24514aab1-e24514aab9;
array e24514aabb e24514aabb1-e24514aabb9;
array e34403 e344031-e344039;
array e34404 e344041-e344049;
array e34413c e34413c1-e34413c9;
array e34413e e34413e1-e34413e9;
array e34413cc e34413cc1-e34413cc9;
array e34413cd e34413cd1-e34413cd9;
array e35600 e356001-e356009;
array e22611 e226111-e226119;
array e22627 e226271-e226279;
array e22627e e22627e1-e22627e9;

```

array e22627c e22627c1-e22627c9;
array e22627cb e22627cb1-e22627cb9;
array e22612 e226121-e226129;
array e226044 e2260414 e2260424 e2260434 e2260444 e2260454 e2260464 e2260474 e2260484
e2260494;
array e226043 e2260413 e2260423 e2260433 e2260443 e2260453 e2260463 e2260473 e2260083
e2260493;
array e38002 e380021-e380029;
array e38003 e380031-e380039;
array e38012 e380121-e380129;
array e38012b e38012b1-e38012b9;
array e38012aaa e38012aaa1-e38012aaa9;
array e38012aab e38012aab1-e38012aab9;
array e38102 e381021-e381029;
array e38105 e381051-e381059;
array e38201 e382011-e382019;
array e38202 e382021-e382029;
array e38211 e382111-e382119;
array e38211b e38211b1-e38211b9;
array e38211aaa e38211aaa1-e38211aaa9;
array e38211aab e38211aab1-e38211aab9;
array e88501 e885011-e885019;
array e88502 e885021-e885029;
array e88512 e885121-e885129;
array e88512b e88512b1-e88512b9;
array e88512aaa e88512aaa1-e88512aaa9;
array e88512aab e88512aab1-e88512aab9;
array e98403 e984031-e984039;
array e98404a e98404a1-e98404a9;
array e98414 e984141-e984149;
array e98414b e98414b1-e98414b9;
array e98414aaa e98414aaa1-e98414aaa9;
array e98414aab e98414aab1-e98414aab9;
array e99500 e995001-e995009;
array e100232 e102321-e102329;
array e100233 e102331-e102339;
array e100249 e102491-e102499;
array e100249e e10249e1-e10249e9;
array e100249c e10249c1-e10249c9;
array e100249cb e10249cb1-e10249cb9;
array e102253 e1022513 e1022523 e1022533 e1022543 e1022553 e1022563 e1022573 e2260083
e1022593;
array e102254 e1022514 e1022524 e1022534 e1022544 e1022554 e1022564 e1022574 e1022584
e1022594;

flagot16=0; /* flag for the cases whose overtime unit is 16, since "number of weeks worked" is not
available. */

flagcp16=0; /* flag for the cases whose other comp. time unit is 16 */

/*-----overtime hours and overtime payment-----*/

```

array hourly hourly1-hourly9;
array otunit otunit1-otunit9;
array otdays otdays1-otdays9;
array otwks otwks1-otwks9;
array otperju otperju1-otperju9;
array otperjt otperjt1-otperjt9;
array othrly othrly1-othrly9;
array otamt otamt1-otamt9; /* which is the amount in the time unit other thna hourly.*/
array othours othrs1-othrs9;

/*----- Initialize the variables -----*/
do i=1 to 9;
  otunit[i]=-4; otdays[i]=-4; otwks[i]=-4; otperju[i]=-4; otperjt[i]=-4; othrly[i]=-4; otamt[i]=-4; othours
[i]=-4;
end;

/* Overtime is asked in the following places:
beginning with 19200 (two branches depends on if regualr pay is hourly or non-hourly),
beginning correction with 19200,
beginning with 83100 (two baranches depends on if regular pay is hourly or non-hourly),
beginning correction with 83100, ending if no overtime reported in the beginning,
ending if no overtime reported in the beginning,
ending if overtime reported in the beginning. */

***** Time Unit;
do i=1 to 9;
if e24502[i] not in (.,-4,-5) then otunit[i]=e24502[i];
if e34404[i] not in (.,-4,-5) then otunit[i]=e34404[i];
if e22612[i] not in (.,-4,-5) then otunit[i]=e22612[i];
else if e226044[i] lt 0 and e226043[i] not in (.,-4,-5) then otunit[i]=-3;
if e88502[i] not in (.,-4,-5) then otunit[i]=e88502[i];
if e98404a[i] not in (.,-4,-5) then otunit[i]=e98404a[i];
if e100233[i] not in (.,-4,-5) then otunit[i]=e100233[i];
else if e102254[i] lt 0 and e102254[i] not in (.,-4,-5) then otunit[i]=-3;
if e38003[i] not in (.,-4,-5) then otunit[i]=e38003[i];
if e38202[i] not in (.,-4,-5) then otunit[i]=e38202[i];
else if e38201[i] lt 0 and e38201[i] not in (.,-4,-5) then otunit[i]=-3;

end;

***** Number of Days Per Week;
do i=1 to 9;
if e24514b[i] not in (.,-4,-5) then otdays[i]=e24514b[i];
if e34413e[i] not in (.,-4,-5) then otdays[i]=e34413e[i];
if e22627e[i] not in (.,-4,-5) then otdays[i]=e22627e[i];
if e88512b[i] not in (.,-4,-5) then otdays[i]=e88512b[i];
if e98414b[i] not in (.,-4,-5) then otdays[i]=e98414b[i];
if e100249e[i] not in (.,-4,-5) then otdays[i]=e100249e[i];
if e38012b[i] not in (.,-4,-5) then otdays[i]=e38012b[i];
if e38211b[i] not in (.,-4,-5) then otdays[i]=e38211b[i];

```

end;

***** Number of Weeks Per Year;

do i=1 to 9;

if e35600[i] not in (.,-4,-5) then otwks[i]=e35600[i];

if e99500[i] not in (.,-4,-5) then otwks[i]=e99500[i];

end;

***** Time Unit to Finish One Item or Job if reporting "Per Item" or "Per Job";

do i=1 to 9;

if e24514aab[i] not in (.,-4,-5) then otperju[i]=e24514aab[i];

if e34413cc[i] not in (.,-4,-5) then otperju[i]=e34413cc[i];

if e22627c[i] not in (.,-4,-5) then otperju[i]=e22627c[i];

if e88512aaa[i] not in (.,-4,-5) then otperju[i]=e88512aaa[i];

if e98414aaa[i] not in (.,-4,-5) then otperju[i]=e98414aaa[i];

if e100249c[i] not in (.,-4,-5) then otperju[i]=e100249c[i];

if e38012aaa[i] not in (.,-4,-5) then otperju[i]=e38012aaa[i];

if e38211aaa[i] not in (.,-4,-5) then otperju[i]=e38211aaa[i];

end;

***** Amount of Time to Finish One Item or Job if Reporting "Per Item" or "Per Job";

do i=1 to 9;

if e24514aabb[i] not in (.,-4,-5) then otperjt[i]=e24514aabb[i];

if e34413cd[i] not in (.,-4,-5) then otperjt[i]=e34413cd[i];

if e22627cb[i] not in (.,-4,-5) then otperjt[i]=e22627cb[i];

if e88512aab[i] not in (.,-4,-4) then otperjt[i]=e88512aab[i];

if e98414aab[i] not in (.,-4,-5) then otperjt[i]=e98414aab[i];

if e100249cb[i] not in (.,-4,-5) then otperjt[i]=e100249cb[i];

if e38012aab[i] not in (.,-4,-5) then otperjt[i]=e38012aab[i];

if e38211aab[i] not in (.,-4,-5) then otperjt[i]=e38211aab[i];

end;

***** Amount;

do i=1 to 9;

if e24514[i] not in (.,-4,-5) then otamt[i]=e24514[i];

if e34413c[i] not in (.,-4,-5) then otamt[i]=e34413c[i];

if e22627[i] not in (.,-4,-5) then otamt[i]=e22627[i];

if e88512[i] not in (.,-4,-5) then otamt[i]=e88512[i];

if e98414[i] not in (.,-4,-5) then otamt[i]=e98414[i];

if e100249[i] not in (.,-4,-5) then otamt[i]=e100249[i];

if e38012[i] not in (.,-4,-5) then otamt[i]=e38012[i];

if e38211[i] not in (.,-4,-5) then otamt[i]=e38211[i];

end;

***** Hours Per Week;

do i=1 to 9;

if e24501[i] not in (.,-4,-5) then othours[i]=e24501[i];

if e34403[i] not in (.,-4,-5) then othours[i]=e34403[i];

```

if e22611[i] not in (.,-4,-4) then othours[i]=e22611[i];
else if e226043[i] lt 0 and e226043[i] not in (.,-4,-5) then othours[i]=-3;
if e88501[i] not in (.,-4,-5) then othours[i]=e88501[i];
if e98403[i] not in (.,-4,-5) then othours[i]=e98403[i];
if e100232[i] not in (.,-4,-5) then othours[i]=e100232[i];
else if e102253[i] lt 0 and e102253[i] not in (.,-4,-5) then othours[i]=-3;
if e38002[i] not in (.,-4,-5) then othours[i]=e38002[i];
if e38105[i] not in (.,-4,-5) then othours[i]=e38105[i];
else if e38102[i] lt 0 and e38102[i] not in (.,-4,-5) then othours[i]=-3;
end;

```

***** Hourly overtime pay;

```

do i=1 to 9;
if otunit[i]=-4 then othrly[i]=-4;
else if otunit[i]=0 then othrly[i]=-3;
else if otunit[i]=10 then othrly[i]=hourly[i]*1.5;
else if otunit[i]=11 then othrly[i]=hourly[i]*2;
else if otunit[i] in (9,14) then othrly[i]=0;
else if otunit[i] in (1,21) then othrly[i]=otamt[i];

else if otamt[i] ge 0 and otunit[i] in (12,13) and otperju[i] in (1,2) then do;
  if otperju[i]=1 and otperjt[i]>0 then othrly[i]=(otamt[i]/otperjt[i])*60;
  else if otperju[i]=2 and otperjt[i]>0 then othrly[i]=otamt[i]/otperjt[i];
  else othrly[i]=-3;
end;

else if otamt[i] ge 0 and othours[i] gt 0 then do;          /*---- loop 3 ----*/

if otunit[i] in (2,22) then do;
  if otdays[i] gt 0 then othrly[i]=otamt[i]*otdays[i]/othours[i];
  else othrly[i]=-3;
end;

else if otunit[i] in (3,23) then othrly[i]=otamt[i]/othours[i];
else if otunit[i] in (4,24) then othrly[i]=otamt[i]/(2*othours[i]);
else if otunit[i] in (5,25) then othrly[i]=otamt[i]/(4.3*othours[i]);

else if otunit[i] in (6,26) then do;
  if otwks[i] gt 0 then othrly[i]=otamt[i]/(otwks[i]*othours[i]);
  else othrly[i]=-3;
end;

else if otunit[i] in (8,28) then othrly[i]=otamt[i]/(2.15*othours[i]);

else if otunit[i] in (12,13) then do;
  if otperjt[i]>0 then do;
    if otperju[i]=3 then do;
      if otdays[i]>0 then othrly[i]=(otamt[i]*otdays[i])/(othours[i]*otperjt[i]);
      else othrly[i]=-3;
    end;
  end;
end;

```

```
    else if otperju[i]=4 then othrly[i]=otamt[i]/(otperjt[i]*othours[i]);
    else if otperju[i]=5 then othrly[i]=otamt[i]/(otperjt[i]*4.3*othours[i]);
    else othrly[i]=-3;
end;
else othrly[i]=-3;
end;
```

```
/*else if otunit[i]=16 and ecurr[i] ne 1 and euid ge 200001 then do;
  if wkswk[i]>0 then othrly[i]=otamt[i]/(wkswk[i]*othours[i]);
  else othrly[i]=-3;
end;*/
```

***Because we don't have the created variable "number of weeks worked" yet, so I flag these cases for now;

```
else if otunit[i]=16 then do;
  flagot16=1;
  othrly[i]=-3;
end;
```

```
else othrly[i]=-3;
```

```
end;                                     /*----- end of loop 3 -----*/
```

```
else if otamt[i] ne -4 or othours[i] le 0 then othrly[i]=-3;
```

```
end;
```

```
/*----- bad overtime unit -----*/
```

```
unit7ot=0;
unit16ot=0;
unit9ot=0;
```

```
do i=1 to 9;
  if otunit[i]=7 then unit7ot=1;
  if otunit[i]=16 then unit16ot=1;
  if otunit[i]=999 then unit9ot=1;
end;
```

```
/*-----Weekly Pay for Other Compensations -----*/
```

```
/* There are five types of other compensations: tips, bonus, commission, incentive pay and others.
Each type is asked to 9 jobs. So I am going to use double array for compensation. One level for type
and
other level is for job.
```

```
Other compensations are also asked in six places:
Beginning compensation with E19200;
Correction to beginning compensation with E19200;
Beginning compensation with E83100;
Correction to beginning compensation with E83100;
```

Ending compensation if there is only one type of other compensation reported in the beginning;
Ending compensation otherwise. 8?

/*----- Define arrays and initialize the variables: t indicates type and j indicates job -----*/

***** Variables used;

**** Second level of arrays, for 9 jobs;

array E212002 (j) E2120012 E2120022 E2120032 E2120042 E2120052 E2120062 E2120072
E2120082 E2120092;
array E212003 (j) E2120013 E2120023 E2120033 E2120043 E2120053 E2120063 E2120073
E2120083 E2120093;
array E212004 (j) E2120014 E2120024 E2120034 E2120044 E2120054 E2120064 E2120074
E2120084 E2120094;
array E212005 (j) E2120015 E2120025 E2120035 E2120045 E2120055 E2120065 E2120075
E2120085 E2120095;
array E212006 (j) E2120016 E2120026 E2120036 E2120046 E2120056 E2120066 E2120076
E2120086 E2120096;

array E216001 (j) E2160012 E2160022 E2160032 E2160042 E2160052 E2160062 E2160072
E2160082 E2160092;
array E216002 (j) E2160013 E2160023 E2160033 E2160043 E2160053 E2160063 E2160073
E2160083 E2160093;
array E216003 (j) E2160014 E2160024 E2160034 E2160044 E2160054 E2160064 E2160074
E2160084 E2160094;
array E216004 (j) E2160015 E2160025 E2160035 E2160045 E2160055 E2160065 E2160075
E2160085 E2160095;
array E216005 (j) E2160016 E2160026 E2160036 E2160046 E2160056 E2160066 E2160076
E2160086 E2160096;

array E225001 (j) E2250012 E2250022 E2250032 E2250042 E2250052 E2250062 E2250072
E2250082 E2250092;
array E225002 (j) E2250013 E2250023 E2250033 E2250043 E2250053 E2250063 E2250073
E2250083 E2250093;
array E225003 (j) E2250014 E2250024 E2250034 E2250044 E2250054 E2250064 E2250074
E2250084 E2250094;
array E225004 (j) E2250015 E2250025 E2250035 E2250045 E2250055 E2250065 E2250075
E2250085 E2250095;
array E225005 (j) E2250016 E2250026 E2250036 E2250046 E2250056 E2250066 E2250076
E2250086 E2250096;

array E225501 (j) E2255012 E2255022 E2255032 E2255042 E2255052 E2255062 E2255072
E2255082 E2255092;
array E225502 (j) E2255013 E2255023 E2255033 E2255043 E2255053 E2255063 E2255073
E2255083 E2255093;
array E225503 (j) E2255014 E2255024 E2255034 E2255044 E2255054 E2255064 E2255074
E2255084 E2255094;
array E225504 (j) E2255015 E2255025 E2255035 E2255045 E2255055 E2255065 E2255075
E2255085 E2255095;
array E225505 (j) E2255016 E2255026 E2255036 E2255046 E2255056 E2255066 E2255076
E2255086 E2255096;

array E225301 (j) E2253012 E2253022 E2253032 E2253042 E2253052 E2253062 E2253072
E2253082 E2253092;
array E225302 (j) E2253013 E2253023 E2253033 E2253043 E2253053 E2253063 E2253073
E2253083 E2253093;
array E225303 (j) E2253014 E2253024 E2253034 E2253044 E2253054 E2253064 E2253074
E2253084 E2253094;
array E225304 (j) E2253015 E2253025 E2253035 E2253045 E2253055 E2253065 E2253075
E2253085 E2253095;
array E225305 (j) E2253016 E2253026 E2253036 E2253046 E2253056 E2253066 E2253076
E2253086 E2253096;

array E225351 (j) E2253512 E2253522 E2253532 E2253542 E2253552 E2253562 E2253572
E2253582 E2253592;
array E225352 (j) E2253513 E2253523 E2253533 E2253543 E2253553 E2253563 E2253573
E2253583 E2253593;
array E225353 (j) E2253514 E2253524 E2253534 E2253544 E2253554 E2253564 E2253574
E2253584 E2253594;
array E225354 (j) E2253515 E2253525 E2253535 E2253545 E2253555 E2253565 E2253575
E2253585 E2253595;
array E225355 (j) E2253516 E2253526 E2253536 E2253546 E2253556 E2253566 E2253576
E2253586 E2253596;

array E22613 (j) E226131-E226139;
array E22614 (j) E226141-E226149;
array E22615 (j) E226151-E226159;
array E22616 (j) E226161-E226269;
array E22617 (j) E226171-E226179;

array E22628 (j) E226281-E226289;
array E22629 (j) E226291-E226299;
array E22630 (j) E226301-E226309;
array E22631 (j) E226311-E226319;
array E22632 (j) E226321-E226329;

array E22628e (j) E22628e1-E22628e9;
array E22629e (j) E22629e1-E22629e9;
array E22630e (j) E22630e1-E22630e9;
array E22631e (j) E22631e1-E22631e9;
array E22632e (j) E22632e1-E22632e9;

array E22628c (j) E22628c1-E22628c9;
array E22629c (j) E22629c1-E22629c9;
array E22630c (j) E22630c1-E22630c9;
array E22631c (j) E22631c1-E22631c9;
array E22632c (j) E22632c1-E22632c9;

array E22628cb (j) E22628cb1-E22628cb9;
array E22629cb (j) E22629cb1-E22629cb9;
array E22630cb (j) E22630cb1-E22630cb9;
array E22631cb (j) E22631cb1-E22631cb9;

array E22632cb (j) E22632cb1-E22632cb9;

array E102051 (j) E1020512 E1020522 E1020532 E1020542 E1020552 E1020562 E1020572 E1020582 E1020592;

array E102052 (j) E1020513 E1020523 E1020533 E1020543 E1020553 E1020563 E1020573 E1020583 E1020593;

array E102053 (j) E1020514 E1020524 E1020534 E1020544 E1020554 E1020564 E1020574 E1020584 E1020594;

array E102054 (j) E1020515 E1020525 E1020535 E1020545 E1020555 E1020565 E1020575 E1020585 E1020595;

array E102055 (j) E1020516 E1020526 E1020536 E1020546 E1020556 E1020566 E1020576 E1020586 E1020596;

array E102141 (j) E1021412 E1021422 E1021432 E1021442 E1021452 E1021462 E1021472 E1021482 E1021492;

array E102142 (j) E1021413 E1021423 E1021433 E1021443 E1021453 E1021463 E1021473 E1021483 E1021493;

array E102143 (j) E1021414 E1021424 E1021434 E1021444 E1021454 E1021464 E1021474 E1021484 E1021494;

array E102144 (j) E1021415 E1021425 E1021435 E1021445 E1021455 E1021465 E1021475 E1021485 E1021495;

array E102145 (j) E1021416 E1021426 E1021436 E1021446 E1021456 E1021466 E1021476 E1021486 E1021496;

array E10214b1 (j) E10214b12 E10214b22 E10214b32 E10214b42 E10214b52 E10214b62 E10214b72 E10214b82 E10214b92;

array E10214b2 (j) E10214b13 E10214b23 E10214b33 E10214b43 E10214b53 E10214b63 E10214b73 E10214b83 E10214b93;

array E10214b3 (j) E10214b14 E10214b24 E10214b34 E10214b44 E10214b54 E10214b64 E10214b74 E10214b84 E10214b94;

array E10214b4 (j) E10214b15 E10214b25 E10214b35 E10214b45 E10214b55 E10214b65 E10214b75 E10214b85 E10214b95;

array E10214b5 (j) E10214b16 E10214b26 E10214b36 E10214b46 E10214b56 E10214b66 E10214b76 E10214b86 E10214b96;

array E10214aaa1 (j) E10214aaa12 E10214aaa22 E10214aaa32 E10214aaa42 E10214aaa52 E10214aaa62 E10214aaa72 E10214aaa82 E10214aaa92;

array E10214aaa2 (j) E10214aaa13 E10214aaa23 E10214aaa33 E10214aaa43 E10214aaa53 E10214aaa63 E10214aaa73 E10214aaa83 E10214aaa93;

array E10214aaa3 (j) E10214aaa14 E10214aaa24 E10214aaa34 E10214aaa44 E10214aaa54 E10214aaa64 E10214aaa74 E10214aaa84 E10214aaa94;

array E10214aaa4 (j) E10214aaa15 E10214aaa25 E10214aaa35 E10214aaa45 E10214aaa55 E10214aaa65 E10214aaa75 E10214aaa85 E10214aaa95;

array E10214aaa5 (j) E10214aaa16 E10214aaa26 E10214aaa36 E10214aaa46 E10214aaa56 E10214aaa66 E10214aaa76 E10214aaa86 E10214aaa96;

array E10214aab1 (j) E10214aab12 E10214aab22 E10214aab32 E10214aab42 E10214aab52 E10214aab62 E10214aab72 E10214aab82 E10214aab92;

array E10214aab2 (j) E10214aab13 E10214aab23 E10214aab33 E10214aab43 E10214aab53 E10214aab63 E10214aab73 E10214aab83 E10214aab93;

array E10214aab3 (j) E10214aab14 E10214aab24 E10214aab34 E10214aab44 E10214aab54

E10214aab64 E10214aab74 E10214aab84 E10214aab94;
array E10214aab4 (j) E10214aab15 E10214aab25 E10214aab35 E10214aab45 E10214aab55
E10214aab65 E10214aab75 E10214aab85 E10214aab95;
array E10214aab5 (j) E10214aab16 E10214aab26 E10214aab36 E10214aab46 E10214aab56
E10214aab66 E10214aab76 E10214aab86 E10214aab96;

array E100234 (j) E102341-E102349;
array E100235 (j) E102351-E102359;
array E100236 (j) E102361-E102369;
array E100237 (j) E102371-E102379;
array E100239 (j) E102391-E102399;

array E100250 (j) E102501-E102509;
array E100251 (j) E102511-E102519;
array E100252 (j) E102521-E102529;
array E100253 (j) E102531-E102539;
array E100254 (j) E102541-E102549;

array E100250e (j) E10250e1-E10250e9;
array E100251e (j) E10251e1-E10251e9;
array E100252e (j) E10252e1-E10252e9;
array E100253e (j) E10253e1-E10253e9;
array E100254e (j) E10254e1-E10254e9;

array E100250c (j) E10250c1-E10250c9;
array E100251c (j) E10251c1-E10251c9;
array E100252c (j) E10252c1-E10252c9;
array E100253c (j) E10253c1-E10253c9;
array E100254c (j) E10254c1-E10254c9;

array E100250cb (j) E10250cb1-E10250cb9;
array E100251cb (j) E10251cb1-E10251cb9;
array E100252cb (j) E10252cb1-E10252cb9;
array E100253cb (j) E10253cb1-E10253cb9;
array E100254cb (j) E10254cb1-E10254cb9;

array E384071 (j) E3840711 E3840721 E3840731 E3840741 E3840751 E3840761 E3840771
E3840781 E3840791;
array E384072 (j) E3840712 E3840722 E3840732 E3840742 E3840752 E3840762 E3840772
E3840782 E3840792;
array E384073 (j) E3840713 E3840723 E3840733 E3840743 E3840753 E3840763 E3840773
E3840783 E3840793;
array E384074 (j) E3840714 E3840724 E3840734 E3840744 E3840754 E3840764 E3840774
E3840784 E3840794;
array E384075 (j) E3840715 E3840725 E3840735 E3840745 E3840755 E3840765 E3840775
E3840785 E3840795;

array E384161 (j) E3841611 E3841621 E3841631 E3841641 E3841651 E3841661 E3841671
E3841681 E3841691;
array E384162 (j) E3841612 E3841622 E3841632 E3841642 E3841652 E3841662 E3841672
E3841682 E3841692;

array E384163 (j) E3841613 E3841623 E3841633 E3841643 E3841653 E3841663 E3841673
E3841683 E3841693;
array E384164 (j) E3841614 E3841624 E3841634 E3841644 E3841654 E3841664 E3841674
E3841684 E3841694;
array E384165 (j) E3841615 E3841625 E3841635 E3841645 E3841655 E3841665 E3841675
E3841685 E3841695;

array E38416K1 (j) E38416K11 E38416K21 E38416K31 E38416K41 E38416K51 E38416K61
E38416K71 E38416K81 E38416K91;
array E38416K2 (j) E38416K12 E38416K22 E38416K32 E38416K42 E38416K52 E38416K62
E38416K72 E38416K82 E38416K92;
array E38416K3 (j) E38416K13 E38416K23 E38416K33 E38416K43 E38416K53 E38416K63
E38416K73 E38416K83 E38416K93;
array E38416K4 (j) E38416K14 E38416K24 E38416K34 E38416K44 E38416K54 E38416K64
E38416K74 E38416K84 E38416K94;
array E38416K5 (j) E38416K15 E38416K25 E38416K35 E38416K45 E38416K55 E38416K65
E38416K75 E38416K85 E38416K95;

array E38416I1 (j) E38416I11 E38416I21 E38416I31 E38416I41 E38416I51 E38416I61 E38416I71
E38416I81 E38416I91;
array E38416I2 (j) E38416I12 E38416I22 E38416I32 E38416I42 E38416I52 E38416I62 E38416I72
E38416I82 E38416I92;
array E38416I3 (j) E38416I13 E38416I23 E38416I33 E38416I43 E38416I53 E38416I63 E38416I73
E38416I83 E38416I93;
array E38416I4 (j) E38416I14 E38416I24 E38416I34 E38416I44 E38416I54 E38416I64 E38416I74
E38416I84 E38416I94;
array E38416I5 (j) E38416I15 E38416I25 E38416I35 E38416I45 E38416I55 E38416I65 E38416I75
E38416I85 E38416I95;

array E38416IB1 (j) E38416IB11 E38416IB21 E38416IB31 E38416IB41 E38416IB51 E38416IB61
E38416IB71 E38416IB81 E38416IB91;
array E38416IB2 (j) E38416IB12 E38416IB22 E38416IB32 E38416IB42 E38416IB52 E38416IB62
E38416IB72 E38416IB82 E38416IB92;
array E38416IB3 (j) E38416IB13 E38416IB23 E38416IB33 E38416IB43 E38416IB53 E38416IB63
E38416IB73 E38416IB83 E38416IB93;
array E38416IB4 (j) E38416IB14 E38416IB24 E38416IB34 E38416IB44 E38416IB54 E38416IB64
E38416IB74 E38416IB84 E38416IB94;
array E38416IB5 (j) E38416IB15 E38416IB25 E38416IB35 E38416IB45 E38416IB55 E38416IB65
E38416IB75 E38416IB85 E38416IB95;

*** Define the faked sub-arrays for 38329 variables for each of the 5 comp. types, the variables in the
five related sub-arrays are same because the 38329 variables are only about the single comp. type
reported in the beginning;

array e383291b (j) e38329b1-e38329b9;
array e383292b (j) e38329b1-e38329b9;
array e383293b (j) e38329b1-e38329b9;
array e383294b (j) e38329b1-e38329b9;
array e383295b (j) e38329b1-e38329b9;

array e383291d (j) e38329d1-e38329d9;
array e383292d (j) e38329d1-e38329d9;
array e383293d (j) e38329d1-e38329d9;
array e383294d (j) e38329d1-e38329d9;
array e383295d (j) e38329d1-e38329d9;

array e383291k (j) e38329k1-e38329k9;
array e383292k (j) e38329k1-e38329k9;
array e383293k (j) e38329k1-e38329k9;
array e383294k (j) e38329k1-e38329k9;
array e383295k (j) e38329k1-e38329k9;

array e383291i (j) e38329i1-e38329i9;
array e383292i (j) e38329i1-e38329i9;
array e383293i (j) e38329i1-e38329i9;
array e383294i (j) e38329i1-e38329i9;
array e383295i (j) e38329i1-e38329i9;

array e383291ib (j) e38329ib1-e38329ib9;
array e383292ib (j) e38329ib1-e38329ib9;
array e383293ib (j) e38329ib1-e38329ib9;
array e383294ib (j) e38329ib1-e38329ib9;
array e383295ib (j) e38329ib1-e38329ib9;

/* 22510 variables, which I will use to get the freq. of those who answer "per job", i.e. "12, 13" in 21600 questions but who are not given "1" in 22510 variables */

array E225101 (j) E2251012 E2251022 E2251032 E2251042 E2251052 E2251062 E2251072
E2251082 E2251092;
array E225102 (j) E2251013 E2251023 E2251033 E2251043 E2251053 E2251063 E2251073
E2251083 E2251093;
array E225103 (j) E2251014 E2251024 E2251034 E2251044 E2251054 E2251064 E2251074
E2251084 E2251094;
array E225104 (j) E2251015 E2251025 E2251035 E2251045 E2251055 E2251065 E2251075
E2251085 E2251095;
array E225105 (j) E2251016 E2251026 E2251036 E2251046 E2251056 E2251066 E2251076
E2251086 E2251096;

**** First level of arrays, for 5 comp. types;

array e21200 (t) e212002-e212006;

array e21600 (t) e216001-e216005;
array e22500 (t) e225001-e225005;
array e22550 (t) e225501-e225505;
array e22530 (t) e225301-e225305;
array e22535 (t) e225351-e225355;

array ct1unit (t) e22613-e22617;
array ct1amt (t) e22628-e22632;
array ct1days (t) e22628e e22629e e22630e e22631e e22632e;
array ct1prju (t) e22628c e22629c e22630c e22631c e22632c;

array ct1prjt (t) e22628cb e22629cb e22630cb e22631cb e22632cb;

array e10205 (t) e102051-e102055;
array e10214 (t) e102141-e102145;
array e10214b (t) e10214b1-e10214b5;
array e10214aaa (t) e10214aaa1-e10214aaa5;
array e10214aab (t) e10214aab1-e10214aab5;

array ct2unit (t) e100234 e100235 e100236 e100237 e100239;
array ct2amt (t) e100250-e100254;
array ct2days (t) e100250e e100251e e100252e e100253e e100254e;
array ct2prju (t) e100250c e100251c e100252c e100253c e100254c;
array ct2prjt (t) e100250cb e100251cb e100252cb e100253cb e10025cb;

array e38329b (t) e383291b e383292b e383293b e383294b e3832995b;
array e38329d (t) e383291d e383292d e383293d e383294d e383295d;
array e38329k (t) e383291k e383292k e383293k e383294k e383295k;
array e38329i (t) e383291i e383292i e383293i e383294i e383295i;
array e38329ib (t) e383291ib e383292ib e383293ib e383294ib e383295ib;

/* The 38329 variables only exist for one type of compensation that's reported in the beginning. But I created the faked sub-arrays for 5 types of compensation to make the program much easier. */

array e38407 (t) e384071-e384075;
array e38416 (t) e384161-e384165;
array e38416k (t) e38416k1-e38416k5;
array e38416i (t) e38416i1-e38416i5;
array e38416ib (t) e38416ib1-e38416ib5;

array e22510 (t) e225101-e225105;

***** Define the faked arrays for variables ECURR, EUID and WKSWK;

/* array ecur1 (j) ecurr1-ecurr9;

array ecur2 (j) ecurr1-ecurr9;

array ecur3 (j) ecurr1-ecurr9;

array ecur4 (j) ecurr1-ecurr9;

array ecur5 (j) ecurr1-ecurr9;

array euidd1 (j) euid1-euid9;

array euidd2 (j) euid1-euid9;

array euidd3 (j) euid1-euid9;

array euidd4 (j) euid1-euid9;

array euidd5 (j) euid1-euid9;

array wkswkk1 (j) wkswk1-wkswk9;

array wkswkk2 (j) wkswk1-wkswk9;

array wkswkk3 (j) wkswk1-wkswk9;

array wkswkk4 (j) wkswk1-wkswk9;

array wkswkk5 (j) wkswk1-wkswk9;

array ecur (t) ecur1-ecur5;

```
array euidd (t) euidd1-euidd5;  
array wkswkk (t) wkswkk1-wkswkk5; */
```

```
***** Variables created;  
**** Second level of arrays: for nine jobs;
```

```
array cpunit1 (j) cpunit11-cpunit19;  
array cpunit2 (j) cpunit21-cpunit29;  
array cpunit3 (j) cpunit31-cpunit39;  
array cpunit4 (j) cpunit41-cpunit49;  
array cpunit5 (j) cpunit51-cpunit59;
```

```
array cpdays1 (j) cpdays11-cpdays19;  
array cpdays2 (j) cpdays21-cpdays29;  
array cpdays3 (j) cpdays31-cpdays39;  
array cpdays4 (j) cpdays41-cpdays49;  
array cpdays5 (j) cpdays51-cpdays59;
```

```
array cprju1 (j) cprju11-cprju19;  
array cprju2 (j) cprju21-cprju29;  
array cprju3 (j) cprju31-cprju39;  
array cprju4 (j) cprju41-cprju49;  
array cprju5 (j) cprju51-cprju59;
```

```
array cprjt1 (j) cprjt11-cprjt19;  
array cprjt2 (j) cprjt21-cprjt29;  
array cprjt3 (j) cprjt31-cprjt39;  
array cprjt4 (j) cprjt41-cprjt49;  
array cprjt5 (j) cprjt51-cprjt59;
```

```
array cpamt1 (j) cpamt11-cpamt19;  
array cpamt2 (j) cpamt21-cpamt29;  
array cpamt3 (j) cpamt31-cpamt39;  
array cpamt4 (j) cpamt41-cpamt49;  
array cpamt5 (j) cpamt51-cpamt59;
```

```
array cpwkly1 (j) cpwkly11-cpwkly19;  
array cpwkly2 (j) cpwkly21-cpwkly29;  
array cpwkly3 (j) cpwkly31-cpwkly39;  
array cpwkly4 (j) cpwkly41-cpwkly49;  
array cpwkly5 (j) cpwkly51-cpwkly59;
```

```
**** First level of arrays: for five comp. types;  
array cpunit (t) cpunit1-cpunit5;  
array cpdays (t) cpdays1-cpdays5;  
array cprju (t) cprju1-cprju5;  
array cprjt (t) cprjt1-cprjt5;  
array cpamt (t) cpamt1-cpamt5;  
array cpwkly (t) cpwkly1-cpwkly5;
```

```
***** Intialize variables;
```

```
do t=1 to 5;
  do j=1 to 9;
    cpunit=-4;
    cpamt=-4;
    cpdays=-4;
    cprju=-4;
    cprjt=-4;
    cpwkly=-4;
  end;
end;
```

```
/*----- The process to create weekly compensation -----*/
```

```
***** Time Unit;
```

```
do t=1 to 5;
  do j=1 to 9;
    if e21600 not in (.,-4,-5) then cpunit=e21600;
    if ct1unit not in (.,-4,-5) then cpunit=ct1unit;
    if e10205 not in (.,-4,-5) then cpunit=e10205;
    if ct2unit not in (.,-4,-5) then cpunit=ct2unit;
    if e38329b not in (.,-4,-5) and e21200=1 then cpunit=e38329b;
    if e38407 not in (.,-4,-5) then cpunit=e38407;
  end;
end;
```

```
***** Number of Days Per Week;
```

```
do t=1 to 5;
  do j=1 to 9;
    if e22550 not in (.,-4,-5) then cpdays=e22550;
    if ct1days not in (.,-4,-5) then cpdays=ct1days;
    if e10214b not in (.,-4,-5) then cpdays=e10214b;
    if ct2days not in (.,-4,-5) then cpdays=ct2days;
    if e38329k not in (.,-4,-5) and e21200=1 then cpdays=e38329k;
    if e38416k not in (.,-4,-5) then cpdays=e38416k;
  end;
end;
```

```
***** Time Unit to Finish One Item or Job if reporting "Per Item" or "Per Job";
```

```
do t=1 to 5;
  do j=1 to 9;
    if e22530 not in (.,-4,-5) then cprju=e22530;
    if ct1prju not in (.,-4,-5) then cprju=ct1prju;
    if e10214aaa not in (.,-4,-5) then cprju=e10214aaa;
    if ct2prju not in (.,-4,-5) then cprju=ct2prju;
    if e38329i not in (.,-4,-5) and e21200=1 then cprju=e38329i;
    if e38416i not in (.,-4,-5) then cprju=e38416i;
  end;
end;
```

```
***** Amount of Time to Finish One Item or Job if Reporting "Per Item" or "Per Job";
```

```
do t=1 to 5;
```



```
do j=1 to 9;
  if e22535 not in (.,-4,-5) then cprjt=e22535;
  if ct1prjt not in (.,-4,-5) then cprjt=ct1prjt;
  if e10214aab not in (.,-4,-5) then cprjt=e10214aab;
  if ct2prjt not in (.,-4,-5) then cprjt=ct2prjt;
  if e38329ib not in (.,-4,-5) and e21200=1 then cprjt=e38329ib;
  if e38416ib not in (.,-4,-5) then cprjt=e38416ib;
end;
end;
```

***** Amount;

```
do t=1 to 5;
  do j=1 to 9;
    if e22500 not in (.,-4,-5) then cpamt=e22500;
    if ct1amt not in (.,-4,-5) then cpamt=ct1amt;
    if e10214 not in (.,-4,-5) then cpamt=e10214;
    if ct2amt not in (.,-4,-5) then cpamt=ct2amt;
    if e38329d not in (.,-4,-5) and e21200=1 then cpamt=e38329d;
    if e38416 not in (.,-4,-5) then cpamt=e38416;
  end;
end;
```

***** Weekly compensation pay;

**** First, define and calculate total hours, which will be the no. of hours worked for other comp.;

```
array tt1hrs (j) tthrs1-tthrs9;
array tt2hrs (j) tthrs1-tthrs9;
array tt3hrs (j) tthrs1-tthrs9;
array tt4hrs (j) tthrs1-tthrs9;
array tt5hrs (j) tthrs1-tthrs9;
```

```
array hour1s (j) hours1-hours9;
array hour2s (j) hours1-hours9;
array hour3s (j) hours1-hours9;
array hour4s (j) hours1-hours9;
array hour5s (j) hours1-hours9;
```

```
array ot1hrs (j) othrs1-othrs9;
array ot2hrs (j) othrs1-othrs9;
array ot3hrs (j) othrs1-othrs9;
array ot4hrs (j) othrs1-othrs9;
array ot5hrs (j) othrs1-othrs9;
```

```
array tthrs (t) tt1hrs tt2hrs tt3hrs tt4hrs tt5hrs;
array hours (t) hour1s hour2s hour3s hour4s hour5s;
array othrs (t) ot1hrs ot2hrs ot3hrs ot4hrs ot5hrs;
```

```
do t=1 to 5;
  do j=1 to 9;
    tthrs=-4;
    if hours in (-1,-2,-3) or othrs in (-1,-2,-3) then tthrs=-3;
    else if hours=-4 and othrs=-4 then tthrs=-4;
```

```

else if hours=-4 and othrs ge 0 then tthrs=othrs;
else if othrs=-4 and hours ge 0 then tthrs=hours;
else if hours ge 0 and othrs ge 0 then tthrs=hours+othrs;
end;
end;

```

```

**** No. of weeks per year;
array cpwks1 (j) otwks1-otwks9;
array cpwks2 (j) otwks1-otwks9;
array cpwks3 (j) otwks1-otwks9;
array cpwks4 (j) otwks1-otwks9;
array cpwks5 (j) otwks1-otwks9;

```

```

array cpwks (t) cpwks1-cpwks5;

```

```

**** Calculate the Weekly Compensation Pay;

```

```

do t=1 to 5;
  do j=1 to 9;
    if cpunit=-4 then cpwkly=-4;
    else if cpunit in (9,14) then cpwkly=0;
    else if cpunit in (1,21) then do;
      if cpamt ge 0 and tthrs ge 0 then cpwkly=cpamt*tthrs;
      else cpwkly=-3;
    end;
    else if cpamt ge 0 and cpunit in (12,13) and cprju in (1,2) then do;
      if cprju=1 and cprjt>0 and tthrs ge 0 then cpwkly=(cpamt/cprjt)*60*tthrs;
      else if cprju=2 and cprjt>0 and tthrs ge 0 then cpwkly=(cpamt/cprjt)*tthrs;
      else cpwkly=-3;
    end;

```

```

else if cpamt ge 0 then do;
  if cpunit in (2,22) then do;
    if cpdays gt 0 then cpwkly=cpamt*cpdays;
    else cpwkly=-3;
  end;

```

```

else if cpunit in (3,23) then cpwkly=cpamt;
else if cpunit in (4,24) then cpwkly=cpamt/2;
else if cpunit in (5,25) then cpwkly=cpamt/4.3;
else if cpunit in (6,26) then do;
  if cpwks gt 0 then cpwkly=cpamt/cpwks;
  else cpwkly=-3;
end;

```

```

else if cpunit in (8,28) then cpwkly=cpamt/2.15;

```

```

else if cpunit in (12,13) then do;
  if cprjt gt 0 then do;
    if cprju=3 then do;
      if cpdays gt 0 then cpwkly=(cpamt/cprjt)*cpdays;
      else cpwkly=-3;
    end;
  end;
end;

```

```
    else if cprju=4 then cpwkly=cpamt/cprjt;
    else if cprju=5 then cpwkly=cpamt/(cprjt*4.3);
    else cpwkly=-3;
end;
else cpwkly=-3;
end;
```

```
/*else if cpunit=16 and ecur ne 1 and euidd ge 200001 then do;
  if wkswkk>0 then cpwkly=cpamt/wkswkk;
  else cpwkly=-3;
end;*/
```

```
/* flag the cases with time unit 16 for now */
else if cpunit=16 then do;
  flagcp16=1;
  cpwkly=-3;
end;
```

```
else cpwkly=-3;
end;
```

```
else if cpamt ne -4 then cpwkly=-3;
```

```
end;
end;
```

```
/*---- bad time unit for compensations ----*/
```

```
perjobck=0;
```

```
unit7cp=0;
unit16cp=0;
unit9cp=0;
```

```
do t=1 to 5;
  do j=1 to 9;
    if cpunit=7 then unit7cp=1;
    if cpunit=16 then unit16cp=1;
    if cpunit=999 then unit9cp=1;
```

```
end;
end;
```

```
/*-----Hourly Total compensation for Each Job-----*/
```

```
/* After computing the hourly overtime payment and hourly other compensation payment. Putting these info.
```

```
together with hourly regular pay and working hours, the hourly total compensation will be created. */
```

```
***** Redefine the arrays that are going to be used in this last step so the format will be unified;
array hrly hrly1-hrly9;
```

```
array hrs hrs1-hrs9;
array ot ot1-ot9;
array othr othr1-othr9;
array comp1 comp11-comp19;
array comp2 comp21-comp29;
array comp3 comp31-comp39;
array comp4 comp41-comp49;
array comp5 comp51-comp59;
```

```
array ttcomp ttcomp1-ttcomp9;
```

```
array ttlhrs tthrs1-tthrs9;
```

```
***** Change the created hours or payment info. with value -4 to value 0;
```

```
array var hourly1-hourly9 hours1-hours9 othrly1-othrly9 othrs1-othrs9
      cpwkly11-cpwkly19 cpwkly21-cpwkly29 cpwkly31-cpwkly39 cpwkly41-cpwkly49 cpwkly51-
cpwkly59;
```

```
array temp hrly1-hrly9 hrs1-hrs9 ot1-ot9 othr1-othr9
      comp11-comp19 comp21-comp29 comp31-comp39 comp41-comp49 comp51-comp59;
do over var;
  temp=var;
  if var=-4 then temp=0;
end;
```

```
***** Initialize the total hourly compensation;
```

```
do i=1 to 9;
  ttcomp[i]=-4;
end;
```

```
***** Calculate the total compensation;
```

```
do i=1 to 9;
  if -4<hrly[i]<0 or -4<ot[i]<0 or -4<comp1[i]<0 or -4<comp2[i]<0 or -4<comp3[i]<0 or -4<comp4[i]<0
or
  -4<comp5[i]<0 or -4<hrs[i]<0 or -4<othr[i]<0 then ttcomp[i]=-3;
  else if ttlhrs[i]=0 then ttcomp[i]=-3;
  else if ttlhrs[i] ne -4 then ttcomp[i]
    =( hrly[i]*hrs[i] + ot[i]*othr[i]+ comp1[i]+comp2[i]+comp3[i]+comp4[i]+comp5[i])/ttlhrs[i];
end;
```

```
*** Cases whose job UID is not -4, it's not a military job, but they didn't answer the wage or
compensation related questions in this round. We use flag variable "flagg1" created in hourly wage
program to identify these people. And "oldcompe" created in hourly wage program is ued as ttcomp;
```

```
array oldcomp oldcomp1-oldcomp9;
```

```
flagg2=0;
```

```
if flagg1=1 then do;
```

```
  do i=1 to 9;
```

```
    if oldcomp[i] ne -99 then do;
```

```
      ttcomp[i]=oldcomp[i];
```

```
      flagg2=1;
```

```
end;  
end;  
end;
```

```
*** Not interviewed in round 5;  
do i=1 to 9;  
  if e200a=-5 then ttcomp[i]=-5;  
end;
```

/* After checking some cases, we found that there are about 366 people who have a job UID for some jobs but did not answer any hourly wage or compensation related questions. Most of these jobs last less than 13 weeks and they started the job before the current round. In this case, we don't ask them their wages when the job ends. And the wages when the job starts are from the previous round. So for these people we will use job UID to dig out the hourly wage or compensation from the previous round.

If the job UID indicates that was a new job in round 5, we -3 their created hourly wage or compensation.

Thirteen of 366, whose job lasts more than 13 weeks. Since we don't have enough information in round 5, we will -3 their created hourly wage or compensation.

Six of 366, the job uid is 200199, so it's OK for them not to have hourly wage, hourly compensation, or job length information. So we keep -4 for these three created variables.

Nine of 366, the job uid is 200099 or 199999, these people are really supposed to answer all the industry, occupation and hourly wage related questions. For some reason, they skip the questions, we -3 their created hourly wage or compensation. This same problem will exist in round 6 again but fixed in round 7. However, we do have job length information for these 9 cases.

```
array e19200 e192001-e192009;  
array e23000 e230001-e230009;  
array e23900 e239001-e239009;  
array e34402 e344021-e344029;  
array e33600 e336001-e336009;  
array e34428 e344281-e344289;  
array e38013 e380131-e380139;  
array e38023 e380231-e380239;  
array e38107 e381071-e381079;  
array e3800b e38000b1-e38000b9;  
array e23901 e239011-e239019;  
array e38102 e381021-e381029;  
array e83100 e831001-e831009;  
array e86900 e869001-e869009;  
array e87800 e878001-e878009;  
array e97300 e973001-e973009;  
array e97500 e975001-e975009;  
array e98402 e984021-e984029;  
array e98429 e984291-e984299;  
array e99500 e995001-e995009;  
array e35600 e356001-e356009;  
array e22610 e226101-e226109;  
array e100230 e1002301-e1002309;  
array e100248 e1002481-e1002489;  
array e34400 e344001-e344009;  
  
array e22900 e229001-e229009;  
array e23200 e232001-e232009;  
array e33400 e334001-e334009;  
array e34402ab e34402ab1-e34402ab9;  
array e33500 e335001-e335009;  
array e34430 e344301-e344309;  
array e38014 e380141-e380149;  
array e38106 e381061-e381069;  
array e38116 e381161-e381169;  
  array e38027 e380271-e380279;  
array e3800f e38000f1-e38000f9;  
array e38103 e381031-e381039;  
array e86800 e868001-e868009;  
array e87100 e871001-e871009;  
array e88000 e880001-e880009;  
array e97400 e974001-e974009;  
array e98300 e983001-e983009;  
array e98402d e98402d1-e98402d9;  
array e984291 e9842911-e9842919;  
array e38002 e380021-e380029;  
array e22609 e226091-e226099;  
array e22626 e226261-e226269;  
  array e100231 e1002311-e1002319;  
array e38116b e38116b1-e38116b9;
```

```

/* arrays added in round 4 */
array e34402aab e34402aab1-e34402aab9;          array e34402aad e34402aad1-e34402aad9;
array pay pay01-pay09;          array e98402caa e98402caa1-e98402caa9;
array e98402cab e98402cab1-e98402cab9;          array e22626c e22626c1-e22626c9;
array e22626cb e22626cb1-e22626cb9;          array e22626e e22626e1-e22626e9;
array e100248c e100248c1-e100248c9;          array e100248cb e100248cb1-e100248cb9;
array e100248e e100248e1-e100248e9;          array e38024b e38024b1-e38024b9;
array e38024c e38024c1-e38024c9;          array endhr1 endhr11-endhr19;
array endhr2 endhr21-endhr29;          array e38116aaa e38116aaa1-e38116aaa9;
array e38116aab e38116aab1-e38116aab9;

```

```

array e226041 e2260411 e2260421 e2260431 e2260441 e2260451 e2260461 e2260471 e2260481
e2260491;
array e226042 e2260412 e2260422 e2260432 e2260442 e2260452 e2260462 e2260472 e2260482
e2260492;

```

```

array e102251 e1022511 e1022521 e1022531 e1022541 e1022551 e1022561 e1022571 e1022581
e1022591;
array e102252 e1022512 e1022522 e1022532 e1022542 e1022552 e1022562 e1022572 e1022582
e1022592;

```

```

array unit unit1-unit9;
array days days1-days9;
array daysa daysa1-daysa9; /*number of days per week if they answer per job*/
array weeks weeks1-weeks9;
array perjobu perjobu1-perjobu9;
array perjobt perjobt1-perjobt9;
array hourly hourly1-hourly9;
array weekly weekly1-weekly9;
array amount amount1-amount9; /* which is the amount in the time unit other thna hourly.*/
array hoursb hoursb1-hoursb9;
array hours hours1-hours9;
array hrwg hrwg1-hrwg9;

```

```

do i=1 to 9;
  if e34402[i]>-4 then e34428[i]=-4;
end;

```

```

/*----- Initialize the variables -----*/
do i=1 to 9;
  unit[i]=-4;
  days[i]=-4;
  weeks[i]=-4;
  perjobu[i]=-4;
  perjobt[i]=-4;
  hourly[i]=-4;
  weekly[i]=-4;
  amount[i]=-4;
  hoursb[i]=-4;
  hours[i]=-4;
end;

```

***** Time Unit;

do i=1 to 9;

if e19200[i] not in (., -4, -5) then unit[i]=e19200[i];
if e22609[i] not in (., -4, -5) then unit[i]=e22609[i];
ELSE IF E226041[I] LT 0 AND E226041[I] NOT IN (.,-4,-5) THEN UNIT[I]=-3;
if e83100[i] not in (., -4, -5) then unit[i]=e83100[i];
if e100230[i] not in (., -4, -5) then unit[i]=e100230[i];
ELSE IF E102251[I] LT 0 AND E102251[I] NOT IN (.,-4,-5) THEN UNIT[I]=-3;
if e38014[i] not in (., -4, -5) then unit[i]=e38014[i];
ELSE IF E38013[I] LT 0 AND E38013[I] NOT IN (.,-4,-5) THEN UNIT[I]=-3;
if e38107[i] not in (., -4, -5) then unit[i]=e38107[i];
ELSE IF E38106[I] LT 0 AND E38106[I] NOT IN (.,-4,-5) THEN UNIT[I]=-3;
end;

***** Number of Days Per Week except e34430 and e98429l because they are not used in "per job" unit;

do i=1 to 9;

if e34402ab[i] not in (.,-4,-5) then daysa[i]=e34402ab[i];
*if e34430[i] not in (.,-4,-5) then daysa[i]=e34430[i];
if e22626e[i] not in (.,-4,-5) then daysa[i]=e22626e[i];
if e98402d[i] not in (.,-4,-5) then daysa[i]=e98402d[i];
*if e98429l[i] not in (.,-4,-5) then daysa[i]=e98429l[i];
if e100248e[i] not in (.,-4,-5) then daysa[i]=e100248e[i];
if e38027[i] not in (.,-4,-5) then daysa[i]=e38027[i];
if e38116b[i] not in (.,-4,-5) then daysa[i]=e38116b[i];
end;

***** Number of Days Per Week including e34430 and e98429l;

do i=1 to 9;

if e34402ab[i] not in (.,-4,-5) then days[i]=e34402ab[i];
if e34430[i] not in (.,-4,-5) then days[i]=e34430[i];
if e22626e[i] not in (.,-4,-5) then days[i]=e22626e[i];
if e98402d[i] not in (.,-4,-5) then days[i]=e98402d[i];
if e98429l[i] not in (.,-4,-5) then days[i]=e98429l[i];
if e100248e[i] not in (.,-4,-5) then days[i]=e100248e[i];
if e38027[i] not in (.,-4,-5) then days[i]=e38027[i];
if e38116b[i] not in (.,-4,-5) then days[i]=e38116b[i];
end;

***** Number of Weeks Per Year;

do i=1 to 9;

if e35600[i] not in (.,-4,-5) then weeks[i]=e35600[i];
if e99500[i] not in (.,-4,-5) then weeks[i]=e99500[i];
end;

***** Time Unit to Finish One Item or Job if reporting "Per Item" or "Per Job";

do i=1 to 9;

if e34402aab[i] not in (.,-4,-5) then perjobu[i]=e34402aab[i];
if e22626c[i] not in (.,-4,-5) then perjobu[i]=e22626c[i];
if e98402caa[i] not in (.,-4,-5) then perjobu[i]=e98402caa[i];

```
if e100248c[i] not in (.,-4,-5) then perjobu[i]=e100248c[i];
if e38024b[i] not in (.,-4,-5) then perjobu[i]=e38024b[i];
if e38116aaa[i] not in (.,-4,-5) then perjobu[i]=e38116aaa[i];
end;
```

```
***** Amount of Time to Finish One Item or Job if Reporting "Per Item" or "Per Job";
```

```
do i=1 to 9;
if e34402aad[i] not in (.,-4,-5) then perjobt[i]=e34402aad[i];
if e22626cb[i] not in (.,-4,-5) then perjobt[i]=e22626cb[i];
if e98402cab[i] not in (.,-4,-5) then perjobt[i]=e98402cab[i];
if e100248cb[i] not in (.,-4,-5) then perjobt[i]=e100248cb[i];
if e38024c[i] not in (.,-4,-5) then perjobt[i]=e38024c[i];
if e38116aab[i] not in (.,-4,-5) then perjobt[i]=e38116aab[i];
end;
```

```
***** Amount;
```

```
do i=1 to 9;
if e22900[i] not in (.,-4,-5) then amount[i]=e22900[i];
if e23000[i] not in (.,-4,-5) then amount[i]=e23000[i];
if e23200[i] not in (.,-4,-5) then amount[i]=e23200[i];
if e23900[i] not in (.,-4,-5) then amount[i]=e23900[i];
```

```
if e33400[i] not in (.,-4,-5) then amount[i]=e33400[i];
if e33500[i] not in (.,-4,-5) then amount[i]=e33500[i];
if e33600[i] not in (.,-4,-5) then amount[i]=e33600[i];
if e34400[i] not in (.,-4,-5) then amount[i]=e34400[i];
```

```
if e22626[i] not in (.,-4,-5) then amount[i]=e22626[i];
```

```
if e86800[i] not in (.,-4,-5) then amount[i]=e86800[i];
if e86900[i] not in (.,-4,-5) then amount[i]=e86900[i];
if e87100[i] not in (.,-4,-5) then amount[i]=e87100[i];
if e87800[i] not in (.,-4,-5) then amount[i]=e87800[i];
```

```
if e97300[i] not in (.,-4,-5) then amount[i]=e97300[i];
if e97400[i] not in (.,-4,-5) then amount[i]=e97400[i];
if e97500[i] not in (.,-4,-5) then amount[i]=e97500[i];
if e98300[i] not in (.,-4,-5) then amount[i]=e98300[i];
```

```
if e100248[i] not in (.,-4,-5) then amount[i]=e100248[i];
```

```
if e38023[i] not in (.,-4,-5) then amount[i]=e38023[i];
```

```
if e38116[i] not in (.,-4,-5) then amount[i]=e38116[i];
```

```
end;
```

```
***** Hours Per Week;
```

```
/*array hourbeg hourbeg1-hourbeg9;
```

```
array hourend hourend1-hourend9;
```

```
do i=1 to 9;
```



```
hourbeg[i]=-4;  
hourend[i]=-4;  
end; */
```

```
do i=1 to 9;  
if e23901[i] not in (.,-4,-5) then hoursb[i]=e23901[i];  
if e34402[i] not in (.,-4,-5) then hoursb[i]=e34402[i];  
if e34428[i] not in (.,-4,-5) then hoursb[i]=e34428[i];  
  
if e22610[i] not in (.,-4,-5) then hoursb[i]=e22610[i];  
else if e226042[i] lt 0 and e226042[i] not in (.,-4,-5) then hoursb[i]=-3;  
  
if e88000[i] not in (.,-4,-5) then hoursb[i]=e88000[i];  
if e98402[i] not in (.,-4,-5) then hoursb[i]=e98402[i];  
if e98429[i] not in (.,-4,-5) then hoursb[i]=e98429[i];  
  
if e100231[i] not in (.,-4,-5) then hoursb[i]=e100231[i];  
else if e102252[i] lt 0 and e102252[i] not in (.,-4,-5) then hoursb[i]=-3;
```

```
*hourbeg[i]=hoursb[i];
```

```
*if e3800b[i]=0 and e3800f[i] not in (.,-4,-5) then hoursb[i]=e3800f[i];  
if e3800f[i] not in (.,-4,-5) then hoursb[i]=e3800f[i];  
*if e3800f[i] not in (.,-4,-5) then hourend[i]=e3800f[i];
```

```
if e38002[i] in (.,-4,0) then hours[i]=hoursb[i];  
else if e38002[i] lt 0 and e38002[i] ne -5 then hours[i]=-3;  
else if e38002[i] gt 0 then do;  
if hoursb[i] gt 0 then hours[i]=hoursb[i]-e38002[i];  
else hours[i]=-3;  
end;
```

```
if e3800b[i] lt 0 and e3800b[i] not in (-4,-5,.) then hours[i]=-3;  
*if e3800b[i] lt 0 and e3800b[i] not in (-4,-5,.) then hourend[i]=-3;
```

```
if e38102[i] in (1,3) and e38103[i] not in (.,-4,-5) then hours[i]=e38103[i];  
*if e38102[i] in (1,3) and e38103[i] not in (.,-4,-5) then hourend[i]=e38103[i];  
if e38102[i] lt 0 and e38102[i] not in (-4,-5,.) then hours[i]=-3;  
*if e38102[i] lt 0 and e38102[i] not in (-4,-5,.) then hourend[i]=-3;  
end;
```

```
***** Hourly Wage by Time Unit;
```

```
do i=1 to 9;  
if unit[i]=-4 then hourly[i]=-4;  
else if unit[i]=1 then hourly[i]=amount[i];  
  
else if amount[i] ge 0 and unit[i] in (12,13) and perjobu[i] in (1,2) then do;  
if perjobu[i]=1 and perjobt[i]>0 then hourly[i]=(amount[i]/perjobt[i])*60;  
else if perjobu[i]=2 and perjobt[i]>0 then hourly[i]=amount[i]/perjobt[i];  
else hourly[i]=-3;  
end;
```

```

else if amount[i] ge 0 and hours[i] gt 0 then do;                                /*---- loop 3 ----*/

if unit[i]=2 then do;
  if days[i] gt 0 then hourly[i]=amount[i]*days[i]/hours[i];
  else hourly[i]=-3;
end;

else if unit[i] in (3, 7, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 28, 999,-1,-2) then hourly[i]=amount
[i]/hours[i];
else if unit[i]=4 then hourly[i]=amount[i]/(2*hours[i]);
else if unit[i]=5 then hourly[i]=amount[i]/(4.3*hours[i]);

else if unit[i] =6 then do;
  if weeks[i] gt 0 then hourly[i]=amount[i]/(weeks[i]*hours[i]);
  else hourly[i]=-3;
end;

else if unit[i]=8 then hourly[i]=amount[i]/(2.15*hours[i]);

else if unit[i] in (12,13) then do;
  if perjobt[i]>0 then do;
    if perjobu[i]=3 then do;
      if daysa[i]>=0 then hourly[i]=(amount[i]*daysa[i])/(hours[i]*perjobt[i]);
      else hourly[i]=-3;
    end;
    else if perjobu[i]=4 then hourly[i]=amount[i]/(perjobt[i]*hours[i]);
    else if perjobu[i]=5 then hourly[i]=amount[i]/(perjobt[i]*4.3*hours[i]);
    else hourly[i]=-3;
  end;
  else hourly[i]=-3;
end;

else hourly[i]=-3;

end;                                /*----- end of loop 3 -----*/

else if amount[i] ne -4 or hours[i] le 0 then hourly[i]=-3;

if unit[i] in (9,14) then hourly[i]=0;
end;

array euid euid1-euid9;          array hrwg hrwg1-hrwg9;
array milflag milflag1-milflag9;      array jleng jleng01-jleng09;

array rleuid rleuid1-rleuid7;        array rlwage rlwage1-rlwage7;
array r1comp r1comp1-r1comp7;        array r2euid r2euid1-r2euid9;
array r2wage r2wage1-r2wage9;        array r2comp r2comp1-r2comp9;
array r3euid r3euid1-r3euid9;        array r3wage r3wage1-r3wage9;
array r3comp r3comp1-r3comp9;        array r4euid r4euid1-r4euid9;
array r4wage r4wage1-r4wage9;        array r4comp r4comp1-r4comp9;

```

```

array oldcomp oldcomp1-oldcomp9;

do i=1 to 9;
  oldcomp[i]=-99;
end;

flagg1=0; flagg2=0; flagg3=0; flagg4=0;
do i=1 to 9;
  if milflag[i] ne 1 and euid[i]>0 and hrwg[i]=-4 then do;
    flagg1=1;
    if jleng[i]=1 then do;

      if 9700 lt euid[i] lt 9800 then do;
        do j1=1 to 7;
          if euid[i]=r1euid[j1] then do;
            hrwg[i]=r1wage[j1];
            oldcomp[i]=r1comp[j1];
          end;
        end;
      end;

      else if 9800 lt euid[i] lt 9900 then do;
        do j2=1 to 9;
          if euid[i]=r2euid[j2] then do;
            hrwg[i]=r2wage[j2];
            oldcomp[i]=r2comp[j2];
          end;
        end;
      end;

      else if 199900 lt euid[i] lt 200000 then do;
        do j3=1 to 9;
          if euid[i]=r3euid[j3] then do;
            hrwg[i]=r3wage[j3];
            oldcomp[i]=r3comp[j3];
          end;
        end;
      end;

      else if 200000 lt euid[i] lt 200100 then do;
        do j4=1 to 9;
          if euid[i]=r4euid[j4] then do;
            hrwg[i]=r4wage[j4];
            oldcomp[i]=r4comp[j4];
          end;
        end;
      end;

      else if euid[i] gt 200100 then do;
        flagg2=1;

```

```
    hrwg[i]=-3;
    oldcomp[i]=-3;
end;
```

```
end;
```

```
else if jleng[i]=0 or -4<jleng[i]<0 then do;
    flagg3=1;
    hrwg[i]=-3;
    oldcomp[i]=-3;
end;
```

```
else if jleng[i]=-4 then do; /* These are the six freelance jobs with job uid=200199. */
    flagg4=1;
    hrwg[i]=-4;
    oldcomp[i]=-4;
end;
```

```
end;
end;
```

*** check those whose hourly wage is still -3 and job uid is not -4 after this;

```
flagg5=0;
do i=1 to 9;
    if milflag[i] ne 1 and euid[i]>0 and hrwg[i]=-4 then do;
        flagg5=1;
    end;
end;
```

/* We found that there are 10 people who have flagg5=1 and flagg4=0. For 9 of those 10, the job uid ends with 99 or 98 and they are the old job uids. So these are the old freelance jobs. Since they are old enough in round 5 to report self-employed job, so they should report occupation, industry and hourly wage related information in round 5. But for some reason, they did not. So we will give them -3 for the created hourly wage or hourly compensation.

For 1 of those 10, the job uid in round 5 is 200002, when we look at employer's name, we found that this is the same job as the one in round 4 with job uid=199999. So for this case, we hand edit by the info. from round 4. */

```
do i=1 to 9;
    if milflag[i] ne 1 and euid[i]>0 and hrwg[i]=-4 then do;
        hrwg[i]=-3;
        oldcomp[i]=-3;
    end;
end;
```

```
if pubid=5132 then do;
    hrwg4=769;
    oldcomp4=769;
end;
```

endsas;
