Let us make p_t difference subbins.

Let us consider the difference in p_t of the pair.
We can maintain equal populations in 6 subbins with the following δp_t ranges for each mean p_t bin.

1. (0.0-.030)(.030-.060)(.060-.095)(.095-.135)(.135-.195)(.195-∞)
2. (0.0-.060)(.060-.120)(.120-.180)(.180-.250)(.250-.330)(.330-∞)
3. (0.0-.080)(.080-.160)(.160-.240)(.240-.330)(.330-.430)(.430-∞)
4. (0.0-.100)(.100-.200)(.200-.300)(.300-.410)(.410-.540)(.540-∞)
5. (0.0-.130)(.130-.260)(.260-.400)(.400-.540)(.540-.700)(.700-∞)
6. (0.0-.160)(.160-.420)(.420-.490)(.490-.660)(.660-.860)(.860-∞)
7. (0.0-.200)(.200-.400)(.400-.620)(.620-.840)(.840-1.08)(1.08-∞)
8. (0.0-.240)(.240-.490)(.490-.790)(.790-1.02)(1.02-1.36)(1.36-∞)