***Track Meet Spectators***

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Lots of people want to watch the Central High School track meet, so the coaches have decided to set up benches on each side of their tracks. They have a 28 foot track and a 42 foot track. They have decided to bring in benches from their store room and place them along both sides of each track end to end so the benches line the tracks length exactly. The benches in the store room are two different lengths. One size is 6 feet long, the other size is 8 feet long. How can the coaches line the two tracks with benches that fit exactly.

42 foot track

28 foot track

Extension: The track team wants to build a fence to enclose their rectangular track. The track is 52 feet by 66 feet. They can buy fencing in 6 foot and 8 foot lengths. What are all of the possible choices of 6 foot and 8 foot length sections of fencing to go all the way around the track? (They cannot cut the fence lengths.)