

Home assignment 7

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Suppose our earthmoving example with 4 trucks and 4 loaders in the system with working hours from 7 am to 7 pm. There is only one dumping site. Different operation activities have following durations:

- Loading: Normal(12 minutes, 1.5 minutes)
- Trip to dumping site: Triangular(3 minutes, 4 minutes, 6 minutes)
- Dumping: Triangular (5 minutes, 6 minutes, 10 minutes)
- Trip from dumping: Uniform (3 minutes, 4 minutes)

Time of each truck arrival at the morning has a Triangular distribution with minimum of 6:55 am, most likely of 7:05 am and maximum of 7:15 am.

Develop codes required for modeling the problem. You are free to use any programming language you are familiar with.

(Due in 2 weeks)