Assignment 10

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-04-10, 23:59 IST.

1) You are given a line balancing problem with the following data (A, -, 5), (B, A, 6), (C, A, 4),(D, B and C, 6), (E, D, 8), (F, E, 7), Which of the following could be a possible solution with minimum number of work stations for T ≤ 12

- WS1 has A and B with time = 11, WS2 has C and D with time = 10, WS3 has E and F with time = 15
- WS1 has A and C with time = 9, WS2 has B and D with time = 12, WS3 has E with time = 8 and WS4 has F with time = 7
- WS1 has A and C with time = 9, WS2 has B and D with time = 12, WS3 has E and F with time = 15

No, the answer is incorrect.
Score: 0

Accepted Answers:
WS1 has A and C with time = 9, WS2 has B and D with time = 12, WS3 has E with time = 8 and WS4 has F with time = 7

2) You are given a line balancing problem with the following data (A, -, 5), (B, A, 6), (C, A, 4),(D, B and C, 6), (E, D, 8), (F, E, 7). Find the line efficiency in percentage

No, the answer is incorrect.
Score: 0

Accepted Answers:
75

Hint
For a line balancing problem, why is it advantageous to start with a heuristic solution?

- a. The number of decision variables are reduced
- b. The number of constraints are reduced
- Both a and b

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both a and b

2) Consider five points (8,12), (6,11), (13, 14), (12, 14), (15, 17). Solve a p-median problem for p = 2 and find the groups.

- {1}, {2,3,4,5}
- {1,2,3},{4,5}
- {1,2},{3,4,5}
- {1,2,3,4},{5}

No, the answer is incorrect.
Score: 0
Accepted Answers:
{1,2}, {3,5}

3) Consider five points (8,12), (6,11), (13, 14), (12, 14), (15, 17). Solve a p-median problem for p = 3 and find the groups.

- {1,2}, {3}, {5}
- {1,2,3},{4},{5}

No, the answer is incorrect.
Score: 0
Accepted Answers:
{1,2}, {3,4,5}
No, the answer is incorrect.
Score: 0
Accepted Answers:
{1,2},{3},{4,5}