Faculty of
Information Technology
King Mongkut's Institute of Technology Ladkrabang

Assignment # 10: Greedy Algorithm

1. Pam is your best friend and she would like to go sightseeing in London for a duration of 3 days.

ATTRACTION	TIME	RATING
WESTMINSTER ABBEY	½ DAY	7
GLOBE THEATER	½ DAY	6
NATIONAL GALLERY	1 DAY	9
BRITISH MUSEUM	2 DAYS	9
ST. PAUL'S CATHEDRAL	½ DAY	8

She has given a list of attractions that she would like to visit. After a brief research, you recorded the amounts of time and ratings as shown in the table above. Pam needs your advice for planning places to visit with a condition of

● Maximise the total rating of visited places.

1.1 What's the criterion that a greedy strategy should be used for this problem?

1.2 What's the total time spent?

1.3 Does Greedy method provide a global optimal list of places to visit?

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- Maximise the number of visited places.

1.4 What's the criterion that a greedy strategy should be used for this problem?

1.5 What's the total time spent?

1.6 Does Greedy method provide a global optimal list of places to visit?