

Lab 5 - Practice Greedy Algorithms

CS208 Algorithm Design and Analysis

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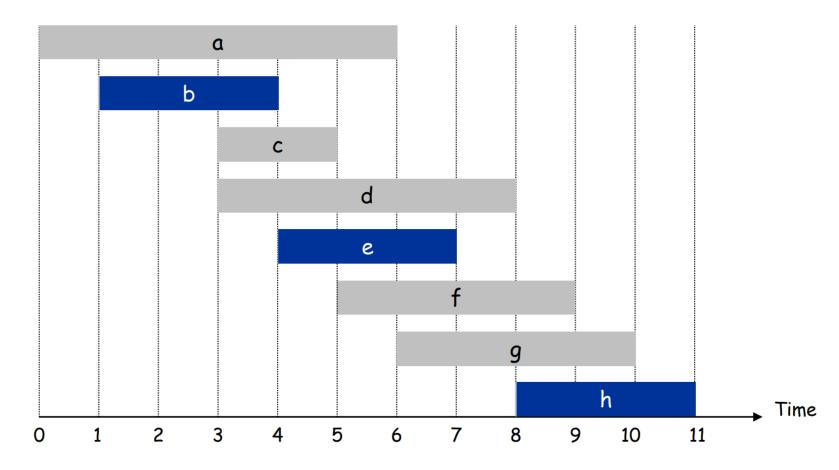
Question 1: Interval Scheduling

Interval scheduling.

- Job j starts at s_j and finishes at f_j .
- Two jobs compatible if they don't overlap.
- Goal: find maximum subset of mutually compatible jobs.



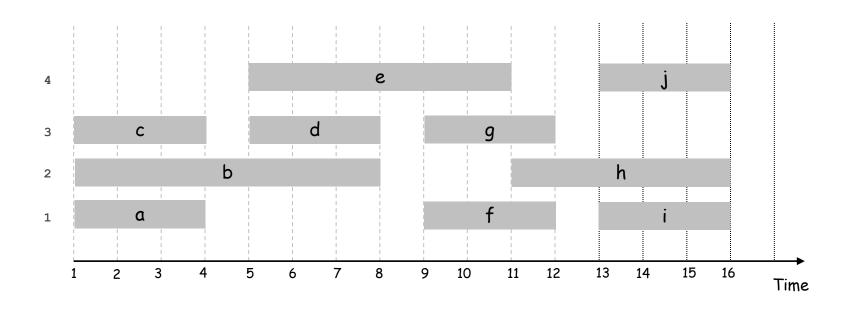




Sample output: b e h



Question 2: Interval partitioning



Sample input:

a 14

b 18

c 1 4

d 58

e 5 11

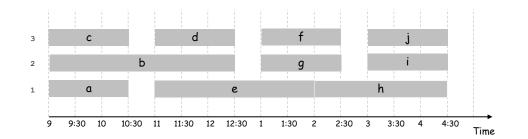
f 9 12

g 9 12

h 11 16

i 13 16

j 13 16



Output:

cdfj

bgl

a e h



Grading

- Implement both Q1 and Q2. Evaluated within a week.
- Total point: 1