

Steps

Sort all the items on the Sais

per unit cost. (total val / total weight)

2) Iterate, pick the best & keep upality
the bagis capacity.

 $T.C. = O(N\log N + N)$ $= O(N\log N)$

Gautam (CFO) (Famous)

BMW approaches Gantam Special sale

N cars

A > A (i) dime till which the ith car
is free of cost (sale is active

B > B[i] beauty of the 'th car

Maximise the overall beauty value of the porchasel car.

→ It takes 1 unit of time to purchose one car

$$A \Rightarrow \begin{bmatrix} 3, & \underline{1}, & 3, & \underline{2}, & 3 \end{bmatrix}$$

$$B \Rightarrow \begin{bmatrix} 6, & 5, & 3, & \underline{1}, & 9 \end{bmatrix}$$

$$\times \times \times \times \times \times \times$$

$$T = 0$$
 9 5
 $T = 1$ 6 6
 $T = 2$ 3 9
 $T = 3$ 20

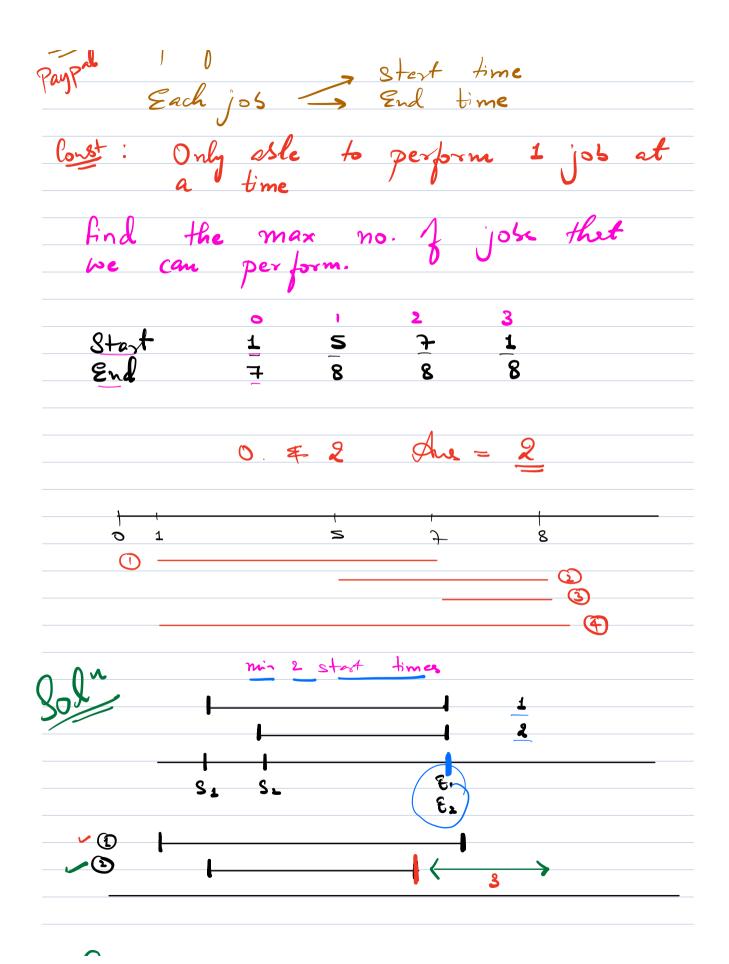
sale end time.

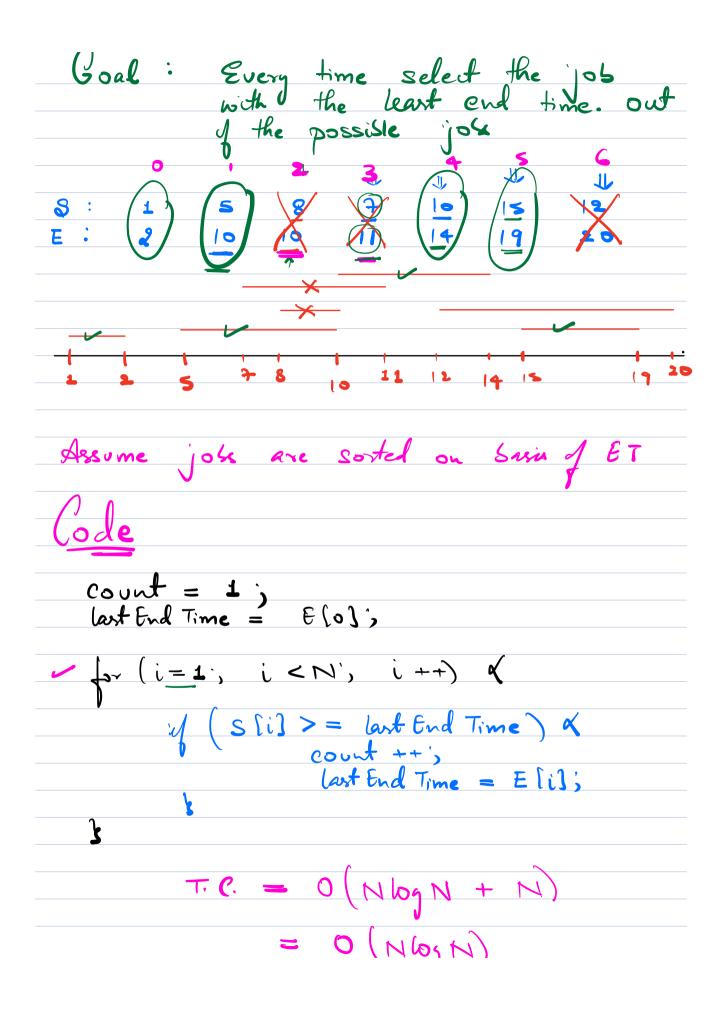
int t = 0;

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min Heap m;
total Beauty = 0;
  for (i=0; i < N; i++) &
             t < A[i] \

total Beauty += B[i];

m. insert (B[i]);
                 il (Blil) m. peek() 9
               total Beauty == m. delete Mint);
                         m. insert (Blis);
                        total Beauty + = B(i);
Sterate over the heap & find total
Searly Sum.
            T.C. = O(NbjN + NbgN)
                  0 (Nb) N)
    Given Nijobs that we need
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|----------------|
| 3 1 2 Onvalid |
| 5 6 1 |
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