

Experiment 2

Shashwat Shah

60004220126

TYBtech Comp B

Aim: Implement Hiring Problem using Randomized Algorithm and perform complexity analysis of the solution.

Theory: The hiring problem is a well known decision making problem in the analysis of algorithms. The problem is solved by designing an efficient algorithm to choose the best candidate from a list of n candidates.

Assume you leave the services of a new office assistant. You decide to engage an employment agency because your prior attempts at hiring were unsatisfactory. Each day the job agency will give you one candidate. You will have an interview with that individual before deciding whether or not to hire them. This hiring technique is expressed in pseudocode by the operator before deciding whether or not to hire them. This hiring technique is expressed in pseudo-code by the operator before deciding whether or not to hire them.

This hiring technique is expressed in pseudocode by the operator. HERE - ASSISTANT

HIRE - ASSISTANT (n)

best $\leftarrow 0$ candidate 0 is a less qualified dummy candidate.

FOR $i \leftarrow 1$ TO n

DO interview candidate i .

IF candidate i is better than candidate

best then best $\leftarrow i$

hire candidate i .

Conclusion : Thus, we implemented hiring problem and compared total cost of choosing a random candidate and following a ranked order.

[Red signature]

en

→