Wednesday, 27 October 2021 12:06 PM Activity Selection Problem start (3) 0 x (5) 8 5
end (4) 6 + 9 You are given n activities. Select the map no. of activities that can be performed by a single person. ans - (4) Sort the activities according to thier finishing time Select the first activity from the socked among. the semaining activities St (stare [o] 7 finish [prev]) Mar activities (a, b, n) & -> Sock on the bains of and time ent eni; print 10; for (j=1 :j<n',j++) } # (s[y] 7 /[i]) 2 print (j); t = j ; Fractional knapsack Brute Force approach: Try tout all subsets with all defferent fraction. arr -> [60, 100] [100, 20], [120, 30] Greedy approach: Calculate the ratio of value 2. Sort the tems baced on 60 + 100 1 80 Job Scheduling Each job has a deadline and an profit associated. Deadline Job Profit 1 job = 1 day - Jobs can be performed in Not necessary to perform all marinnise profet 100 100 + 27 + 15 1 clale a 1 100

6 1 100

C 1 20 choose the job with now $\begin{bmatrix} a & 2 \\ b & 1 \\ c & 3 \end{bmatrix}$ us Jxus what should be the order a 6(c) l'a 3 For day 1, & have all optrône Always to perform a job en its deadhire day. 1) which job to choose fret?? - Hers mass bohen to prefer a joi ?? as close to deadine as présible (i) cost as per projet (2) Try to frid a slot.) <u>o</u> <u>a</u> e 100 19 24 25

15