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alut of activities with their starting time and finishing time alut to select maximum number of activities that can be performed part person such that selected activities must be
                       Week-10
single person such that selected activities must be non conflicting single is said to be non-conflicting if starting time of an activity than or equal to the finishing time of the other activity.
 that a person can only work on a single activity of a time.
      1) START
      2) input n
      3) i, s[m], f[m]
      4) if i>=n goto step 7
      5) input sti]
      6) it is goto step 4
      0= i ti (F
       8) if i>=n goto step 11
       a) imput f[i]
       10) if i < n goto step &
       11) vector < vector < int >> a, vector < int > act
       12) if 1>= n goto step 14
       13) a.push-back (1 f[i], (8(i), i+1)))
       14) sort (a.bigin (), a.ind())
       15) e= INT-MIN, C=0
       16) if i>=n, goto steps 19
       17) if (a[i][i]>=e)
           (i) c=ali]lo]
            (ii) C++
           (lii) act puh_back (a[i][2])
       18) if i<n gots step 16
       19) print, " No. of non-conflicting", c
       20) print, " No. of activity scholed"
       al) if i>=n goto step
       22) print act [i]
       93) STOP
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list of tapies, each task takes specific time to accomplish task has a deadline associated with it. You have to design and implement it wing a program to find maximum of tasks that can be completed without crossing their deadlines also find test of relected tooks.

1) START

2) input n

3) 1, 4(11), 4(11)

4) if i>=n goto step?

s) input t(i)

B) if is goto step 4

7) 1=0

8) if i>n goto step 11

q) input f (i)

10) if i<n gots step 8

1) victor < victor < int > a, victor < int > act

12) if i>=n goto step 14

13) a. puh-bock (& f (i], f (i]- t (i], i+1})

(4) soit(a.begin(), a.end())

15) e= INT-MINI, C= 0

16) if i >= n goto step 12

17) if (a[i] [1]>=e)

18) "e=a(i)[D]

19) c++

20) act.pwh-back (ali][2])

21) if i<n goto step 16

22) sort (act. begin (), act. end())

ay) Print, " Schoted Task Mumbers"

25) if 1 >= n goto step 23

26) Print act (i)

27) if kn goto step 25

28) STOP

unsoited array of elements, duign an algorithm and implem a program to find whether majority element exists or not. I find median of the array. A majority element is an element prois more than n/2 times, where n is the size of array.

- 2) input n
- 3) i, a [n], i, j
- 4) if i >= n goto step 6
- (2) input a(1)
- e) {=0
- (n+p,p) tras (F
- 8) if i>=n goto step 14
- 9) c=1
- 1+1=1 (01
- 1) while (j<n ++ a [j++] = = a[i]) (1) C++
- 12) if (c>n12) Print " Yes"
  - 1= f (i
  - ii) brak
- 13) = j-1
- 14) if (f ==0) Print "No"
- 15) if (20,095;=0) bunt a[2]
- 16) else Print a[n12] + a[n12-1]12
- 17) STOP