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// Name
        : Greedy.cpp
// Author
// Version
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// Description : Hello World in C++, Ansi-style
#include <iostream>
using namespace std;
class JOB
    string job;
    int dead, profit;
 public:
    JOB()
       job=" ";dead=profit=0;
    friend class GREEDY SEQUENCE;
};
class GREEDY_SEQUENCE
{
   JOB J[10];
   string sequence[11];
   int n;
 public:
   void Init()
    n=0;
      for (int i=0; i<10; i++)
        sequence[i]=J[i].job=" "; J[i].dead=J[i].profit=0;
   void accept jobs();
   void sort jobs();
   void job sequence();
};
void GREEDY SEQUENCE::accept jobs()
{
  cout << "\n Enter the no of jobs (max.10) =>";
  cin>>n;
  for(int i=0;i<n;i++)
      cout<<"\n Enter the job name, deadline and profit=>";
      cin>>J[i].job>>J[i].dead>>J[i].profit;
  }
  cout<<"\n -----";
  cout<<"\n JOBS Deadlines Profit ";</pre>
  cout<<"\n -----";
  for(int i=0;i<n;i++)
                                                      "<<J[i].profit;
    cout<<"\n "<<J[i].job<<" "<<J[i].dead<<"
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}
void GREEDY SEQUENCE::sort jobs()
     JOB temp;
  for(int i=1;i<=n;i++)</pre>
        for (int j=0; j < (n-i); j++)
              if(J[j].profit<J[j+1].profit)</pre>
                temp=J[j];
                J[j]=J[j+1];
                J[j+1]=temp;
        }
   }
}
void GREEDY SEQUENCE::job sequence()
     int dmax=0,empty=0,k,profit=0;
     sort_jobs();
     cout<<"\n Jobs sorted according decreasing profits=>";
     cout<<"\n -----";
     cout<<"\n JOBS Deadlines Profit ";
cout<<"\n -----";</pre>
    for(int i=0;i<n;i++)</pre>
                                                           "<<J[i].profit;
     cout<<"\n "<<J[i].job<<"
                                 "<<J[i].dead<<"
   cout<<"\n -----";
    for (int i=0; i< n; i++)
     if(J[i].dead>dmax)
          dmax=J[i].dead;
    }
   empty=dmax;
   for (int i=0; i< n && empty>0; i++)
       k=J[i].dead;
       while (k>0)
          if(sequence[k]==" ")
            sequence[k]=J[i].job;
            empty--;
            profit=profit+J[i].profit;
            break;
           }
          else
             k--;
        }
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}
  int TWT=0;
  cout<<"\n The GREEDY job sequence=>";
  for(int i=1;i<=dmax;i++)</pre>
        TWT=TWT+i-1;
        cout<<" "<<sequence[i];</pre>
   }
  cout<<"\n TOTAL PROFIT=>"<<pre>rofit;
  cout<<"\n TOTAL TIME SPENT BY ALL JOBS=>"<<dmax+TWT;</pre>
int main()
     GREEDY SEQUENCE S;
     int ch;
     do
     {
          cout<<"\n -----";
          cout<<"\n 1.ACCEPT JOBS
          cout<<"\n 2.GREEDY JOB SEQUENCE</pre>
          cout<<"\n 3.EXIT
          cout<<"\n -----";
          cout<<"\n Enter your choice=>";
          cin>>ch;
         switch(ch)
          {
             case 1:
                  S.Init();
                  S.accept jobs();
               break;
             case 2:
                  S.job_sequence();
               break;
                  cout<<"\n Exiting from Program....!";</pre>
               break;
             default:
               cout<<"\n Enter the correct choice....!";</pre>
          }
     }while(ch!=3);
     return 0;
```