```
#include<algorithm>
#include<iostream>
using namespace std;
struct Job{
   char id;
   int dead;
   int profit;
};
bool comparison(Job a, Job b){
   return(a.profit>b.profit);
}
void job_scheduling(Job arr[], int n){
   sort(arr, arr+n, comparison);

   int result[n];
   bool slot[n];

   for(int i=0; i<n; i++){
      slot[i]=false;
   }

   for(int i=0; i<n; i++){
      for(int j=min(n,arr[i].dead)-1; j>=0; j--){
         if(slot[j]==false){
            slot[j]=true;
            result[j]=i;
            break;
         }
      }
   }
```

```
   for(int i=0; i<n; i++){
      if(slot[i]) {
         cout<<arr[result[i]].id<<" ";
      }
   }
}

int main()
{
   Job arr[]= {
            {'a',2,100},
            {'b',1,25},
            {'c',3,30},
            {'d',1,15},
            {'e',3,35}
   };
   int n = sizeof(arr)/sizeof(arr[0]);      //size of array
   cout<<"Maximum profit of job sequence is : ";
   job_scheduling(arr, n);

   return 0;
}
```