```
#include <algorithm>
#include <iostream>
using namespace std;
// A structure to represent a job
struct Job {
  char id; // Job Id
  int dead; // Deadline of job
  int profit; // Profit if job is over before or on
                       // deadline
};
// Comparator function for sorting jobs
bool comparison(Job a, Job b)
  return (a.profit > b.profit);
// Returns maximum profit from jobs
void printJobScheduling(Job arr[], int n)
{
  // Sort all jobs according to decreasing order of profit
  sort(arr, arr + n, comparison);
  int result[n]; // To store result (Sequence of jobs)
  bool slot[n]; // To keep track of free time slots
  // Initialize all slots to be free
  for (int i = 0; i < n; i++)
```

```
slot[i] = false;
  // Iterate through all given jobs
  for (int i = 0; i < n; i++) {
          // Find a free slot for this job (Note that we start
          // from the last possible slot)
          for (int j = min(n, arr[i].dead) - 1; j >= 0; j--) {
                 // Free slot found
                 if (slot[j] == false) {
                        result[j] = i; // Add this job to result
                        slot[j] = true; // Make this slot occupied
                        break;
                 }
          }
   }
  // Print the result
  for (int i = 0; i < n; i++)
          if (slot[i])
                 cout << arr[result[i]].id << " ";</pre>
}
// Driver's code
int main()
{
  Job arr[] = \{ \{ 'a', 2, 100 \}, \}
                         { 'b', 1, 19 },
```

OUTPUT

Following is maximum profit sequence of jobs

c a e

}