PREPARE ^NEW   CERTIFY   COMPETE
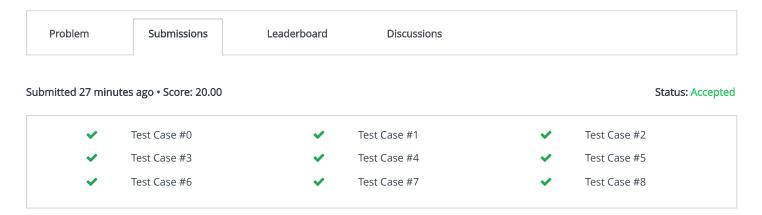
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Give Current Max

Problem	Submissions	Leaderboard	Discussions

Submitted 27 minutes ago • Score: 20.00   Status: Accepted

✔	Test Case #0	✔	Test Case #1	✔	Test Case #2
✔	Test Case #3	✔	Test Case #4	✔	Test Case #5
✔	Test Case #6	✔	Test Case #7	✔	Test Case #8

Submitted Code

Language: C++20   ⅄ Open in editor

```cpp
1  #include <bits/stdc++.h>
2  using namespace std;
3
4  class Student
5  {
6  public:
7      string name;
8      int roll;
9      int marks;
10     Student(string name, int roll, int marks)
11     {
12         this->name = name;
13         this->roll = roll;
14         this->marks = marks;
15     }
16 };
17
18 class cmp
19 {
20 public:
21     bool operator()(Student a, Student b)
22     {
23         if (a.marks < b.marks)
24         {
25             return true;
26         }
27
28         else if (a.marks > b.marks)
29         {
30             return false;
31         }
32
33         else
```

```
34              {
35                  if (a.roll > b.roll)
36                  {
37                      return true;
38                  }
39
40                  else
41                  {
42                      return false;
43                  }
44              }
45          }
46    };
47
48    int main()
49    {
50        priority_queue<Student, vector<Student>, cmp> pq;
51        int n;
52        cin >> n;
53        while (n--)
54        {
55            string name;
56            int roll, marks;
57            cin >> name >> roll >> marks;
58
59            Student obj(name, roll, marks);
60            pq.push(obj);
61        }
62
63        // while(!pq.empty())
64        // {
65        //     cout<<pq.top().name <<" "<<pq.top().roll<<" "<< pq.top().marks <<endl;
66        //     pq.pop();
67        // }
68
69        int q;
70        cin >> q;
71        while (q--)
72        {
73            int command;
74            cin >> command;
75            if (command == 0)
76            {
77                string name;
78                int roll, marks;
79                cin >> name >> roll >> marks;
80                Student obj2(name, roll, marks);
81                pq.push(obj2);
82                if (!pq.empty())
83                {
84                    cout << pq.top().name << " " << pq.top().roll << " " << pq.top().marks << endl;
85                    // break;
86                }
87                else
88                {
89                    cout << "Empty" << endl;
90                    // break;
91                }
92            }
93
94            else if (command == 1)
95            {
96                if (!pq.empty())
97                {
98                    cout << pq.top().name << " " << pq.top().roll << " " << pq.top().marks << endl;
99                    // break;
```

```
100                    }
101              else
102              {
103                    cout << "Empty" << endl;
104                    // break;
105              }
106          }
107
108          else if(command == 2)
109          {
110              if(!pq.empty())
111              {
112                    pq.pop();
113              }
114
115              if(!pq.empty())
116              {
117                    cout<<pq.top().name<<" " <<pq.top().roll<<" " <<pq.top().marks<<endl;
118                    // break;
119              }
120              else
121              {
122                    cout<<"Empty"<<endl;
123                    // break;
124              }
125          }
126      }
127
128      return 0;
129 }
```

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