



Max heap \rightarrow priority_queue \langle int, vector \langle int \rangle \rangle
 \searrow container

Min heap \rightarrow priority_queue \langle int, vector \langle int \rangle , greater \langle int \rangle \rangle



push } $O(\log(n))$
pop }

top } $O(1)^+$
size }





main.cpp

```
1 #include <iostream>
2 #include <vector>
3 #include <queue>
4
5
6 using namespace std;
7
8 int main() {
9
10     priority_queue<int, vector<int>> pq;
11
12     pq.push(2);
13     pq.push(3);
14     pq.push(1);
15
16     cout<<pq.top()<<endl;
17     pq.pop();
18     cout<<pq.top()<<endl;
19     cout<<endl;
20
21
22     priority_queue<int, vector<int>, greater<int>> pqm;
23
24     pqm.push(2);
25     pqm.push(3);
26     pqm.push(1);
27
28     cout<<pqm.top()<<endl;
29     pqm.pop();
30     cout<<pqm.top()<<endl;
```

Run

Output

Clear

```
/tmp/ECYQmaCrm4.o
3
2

1
2
|
```

