

QHEAP1

```
#include <iostream>
#include <set>
using namespace std;

int main() {
    int Q;
    cin >> Q;
    set<int> heap;

    for (int i = 0; i < Q; i++) {
        int type, val;
        cin >> type;
        if (type == 1) {
            cin >> val;
            heap.insert(val);
        } else if (type == 2) {
            cin >> val;
            heap.erase(val);
        } else if (type == 3) {
            cout << *heap.begin() << endl;
        }
    }
    return 0;
}
```