#include<iostream>

#include<queue>

using namespace std;

int main(){

priority\_queue<int> maxi;

// max heap

priority\_queue<int,vector<int>,greater<int> >mini;

maxi.push(1);

maxi.push(3);

maxi.push(2);

maxi.push(0);

cout<<"size "<<maxi.size()<<endl;

int n=maxi.size();

for(int i=0;i<n;i++){

cout<<maxi.top()<<" ";

maxi.pop();

}

cout<<endl;

mini.push(5);

mini.push(1);

mini.push(0);

mini.push(4);

mini.push(3);

int m=mini.size();

for(int i=0;i<m;i++){

cout<<mini.top()<<" ";

mini.pop();

}

cout<<endl;

cout<<"khaali h kya bhai ?? "<<mini.empty()<<endl;

}