#include<iostream>

#include<cstdio>

using namespace std;

//sort(a,a+n,greater <int> () );

//priority\_queue<int,vector<int>,greater<int> > a;

bool cmp\_str(string x1,string x2){

if(x1==x2) return true;

else if(x1.length()!=x2.length()) return x1.length()>x2.length();

else return x1>x2;

}

void qsort(int a[10010],int l,int r){

int mid=a[(l+r)/2];

int i=l,j=r;

while(i<j){

while(a[i]<mid) i++;

while(a[j]>mid) j--;

if(i<=j){

swap(a[i],a[j]);

i++;j--;

}

}

if(l<j) qsort(a,l,j);

if(r>i) qsort(a,i,r);

}

/\*

void merge\_sort(int a[], int l, int r) {

if(l >= r) return;

int mid=(l+r)/2;

merge\_sort(a,l,mid);

merge\_sort(a,mid+1,r);

int i=l,j=mid+1,k=1;

while(i<=mid&&j<=r) {

if(a[i]<=a[j]) tmp[k++]=a[i++];

else tmp[k++]=a[j++];

}

while(i<=mid) tmp[k++]=a[i++];

while(j<=r) tmp[k++]=a[j++];

for(i=l,j=1;i<=r;i++,j++)

a[i]=tmp[j];

}

\*/