#include <stdio.h>

#include <stdlib.h>

void add(int \*p,int x,int y){

p=(int\*)realloc(p,(y+1)\*sizeof(int));

p[y]=x;

}

void delete(int \*p,int x,int \*y){

int br=0;

for (int i=\*y-1;i>=0;i--){

if (p[i]==x){

for (int j=i;j<\*y-1;j++){

p[j]=p[j+1];

}

br++;

}}

\*y=\*y-br;

printf("%d",\*y);

p=(int\*)realloc(p,(\*y-1)\*sizeof(int));

}

void smallest(int \*p,int x,int y){

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

for (int j=0;j<y;j++){

if (p[i]<p[j]){

int f=p[i];

p[i]=p[j];

p[j]=f;

}

}

}

int h=p[x-1];

printf("%d",h);

}

int main()

{

/\*Zadacha 1

int m,n;

printf("N = ");

scanf("%d",&n);

printf("M = ");

scanf("%d",&m);

int a[n][m];

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

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

printf("a[%d][%d] = ",i,j);

scanf("%d",&a[i][j]);

}

}

int b=1;

for (int i=0;i<n-1;i++){

for (int j=0;j<m-1;j++){

if ((a[i][j]>=a[i][j+1]) || (a[i][j]<=a[i+1][j])){

b=0;

}

}

}

if (b==1){

printf("True!");

}

else printf("False!");

Zadacha 2

int m,n;

printf("N = ");

scanf("%d",&n);

printf("M = ");

scanf("%d",&m);

int a[n][m];

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

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

printf("a[%d][%d] = ",i,j);

scanf("%d",&a[i][j]);

}

}

int sum = 0;

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

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

if (i==0 && j==0){

int sum1=a[i+1][j]+a[i+1][j+1]+a[i][j+1];

if (sum1>sum){

sum=sum1;}

}

else if(i==0 && j==m-1){

int sum1=a[i+1][j]+a[i+1][j-1]+a[i][j-1];

if (sum1>sum){

sum=sum1;}

}

else if(i==n-1 && j==0){

int sum1=a[i][j+1]+a[i-1][j+1]+a[i-1][j];

if (sum1>sum){

sum=sum1;}

}

else if(i==n-1 && j==m-1){

int sum1=a[i-1][j]+a[i-1][j-1]+a[i][j-1];

if (sum1>sum){

sum=sum1;}

}

else if(i==0 && j>0 && j<m-1){

int sum1=a[i+1][j]+a[i+1][j-1]+a[i+1][j+1]+a[i][j-1]+a[i][j+1];

if (sum1>sum){

sum=sum1;}

}

else if(j==0 && i>0 && i<m-1){

int sum1=a[i][j+1]+a[i-1][j+1]+a[i+1][j+1]+a[i-1][j]+a[i+1][j];

if (sum1>sum){

sum=sum1;}

}

else if(i==n-1 && j>0 && j<m-1){

int sum1=a[i-1][j]+a[i-1][j-1]+a[i-1][j+1]+a[i][j-1]+a[i][j+1];

if (sum1>sum){

sum=sum1;}

}

else if(j==m-1 && i>0 && i<m-1){

int sum1=a[i][j-1]+a[i-1][j-1]+a[i+1][j-1]+a[i-1][j]+a[i+1][j];

if (sum1>sum){

sum=sum1;}

}

else{

int sum1=a[i][j+1]+a[i][j-1]+a[i+1][j]+a[i+1][j+1]+a[i+1][j-1]+a[i-1][j]+a[i-1][j+1]+a[i-1][j-1];

if (sum1>sum){

sum=sum1;}

}

}

}

printf("Suma = %d",sum);

Zadacha3

int m,n;

printf("N = ");

scanf("%d",&n);

printf("M = ");

scanf("%d",&m);

int a[m][n];

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

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

printf("a[%d][%d] = ",i,j);

scanf("%d",&a[i][j]);

}

}

int max=a[0][0];

int min=a[0][0];

int x,y=0;

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

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

if (a[i][j]>max){

max=a[i][j];

x=i;

}

if (a[i][j]<min){

min=a[i][j];

y=i;

}

}

}

int g[n];

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

g[i]=a[x][i];

}

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

a[x][i]=a[y][i];

}

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

a[y][i]=g[i];

}

Zadacha 4

int m, n, fr, r, el, br=0;

printf("n=");

scanf("%d", &n);

printf("m=");

scanf("%d", &m);

int arr[n][m];

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

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

printf("[%d][%d]:", i, j);

scanf("%d", &arr[i][j]);

}

}

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

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

printf("%d ", arr[i][j]);

}

printf("\n");

}

printf("input number whose friends you searching for:");

scanf("%d", &fr);

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

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

if (arr[i][j]==fr){

printf("\n%d e priqtel s: ");

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

if (arr[i][k]!=fr){

printf("%d, ", arr[i][k]);

}

br++;

}

}

}

}

if (br==0){

printf("this number haven't any friends! :(");

}

\*/

int n,x;

printf("n = ");

scanf("%d",&n);

int \*p;

p=(int \*)calloc(n,sizeof(int));

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

printf("p [%d] = ",a);

scanf("%d",&p[a]);

}

printf("X = ");

scanf("%d",&x);

//add(p,x,n);

//delete(p,x,&n);

smallest(p,x,n);

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

printf("p[%d] = %d\n",a,p[a]);

}

return 0;

}