//bai 1

#include<iostream>

using namespace std;

bool ktnamnhuan(int y){

if((y%4 == 0)&& (y%100 !=0) || (y%400 == 0))

return true;

else

return false;

}

int ngaytrongthang(int m,int y){

int ntt=0;

switch(m){

case 1: case 3: case 5: case 7: case 8: case 10: case 12:

ntt=31;

break;

case 4: case 6: case 9: case 11:

ntt=30;

break;

case 2:

if(ktnamnhuan(y)==1){

ntt=29;

break;

}

else {

ntt=28;

}

}

return ntt;

}

bool kthople(int d, int m, int y){

if(d<1 || d>ngaytrongthang(m,y)){

return false;

}

if(m<1||m>12){

return false;

}

if(y<0){

return false;

}

return 1;

}

int main(){

int d,m,y;

cout<<"Nhap ngay: ";

cin>>d;

cout<<"Nhap thang: ";

cin>>m;

cout<<"Nhap nam: ";

cin>>y;

if(kthople(d,m,y)==true)

cout<<"hop le";

else

cout<<"Ko hop le";

}

//bai 2

#include<iostream>

using namespace std;

void nhapmang(int a[], int &n){

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

cout<<"a["<<i<<"]=";

cin>>a[i];

}

}

int tinhtong(int a[], int n){

int tong=0;

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

if(a[i]%5==0 && a[i]%8==0)

tong = tong + a[i];

return tong;

return -1;

}

int main(){

int a[100];

int n;

cout<<"Nhap n: ";

cin>>n;

nhapmang(a,n);

cout<<"Tong so nguyen chia het cho 5 va 8: "<<

tinhtong(a,n);

}

//Bai 3

#include<iostream>

using namespace std;

void nhapmang(int a[], int& n){

do{

cout<<"Nhap n: ";

cin>>n;

}

while(n>100 || n<0);

cout<<"Nhap mang:\n";

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

cout<<"a["<<i<<"]= ";

cin>>a[i];

}

}

void lonhon5(int a[],int n){

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

if(a[i]>5)

cout<<a[i]<<" ";

}

cout<<endl;

}

int tong(int a[], int n){

int tong=0;

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

if(a[i]<0)

tong+=a[i];

return tong;

return -1;

}

int timMin(int a[], int n){

int min=a[0];

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

if(a[i]<min){

min=a[i];

}

}

return min;

}

int main(){

int a[100],n;

nhapmang(a,n);

cout<<"Gia tri lon hon 5: ";

lonhon5(a,n);

cout<<"Tong gia tri am: "<<tong(a,n);

cout<<"\nGia tri nho nhat la: "<<timMin(a,n);

}

// bai 4

#include<iostream>

#include<string>

using namespace std;

int vitricuoi(string s,string s1){

int vt =s.rfind(s1);

return vt;

}

string thaythe(string s, string s2){

string kq="";

kq=s.replace(0,5,s2);

return kq;

}

string xoachuoi(string s){

string kq="";

kq=s.erase(s.length()-4, 4 );

return kq;

}

string thaythechao(string &s,string s1, string s2){

string kq="";

int pos=s.find(s1);

int len=s1.length();

while(pos!=string::npos){

kq=s.replace(pos,len,s2);

pos=s.find(s1);

}

return kq;

}

int main()

{

string s;

string s2="hello";

string s1="chao";

cout <<"Nhap chuoi: ";

getline(cin, s);

if(vitricuoi(s,s1)==string::npos)

cout<<"Khong tim thay";

else

cout<<"vi tri "<<s1<<" cuoi: "<<vitricuoi(s,s1);

cout<<"\nThay the 5 ki tu dau: "<<thaythe(s,s2);

cout<<"\nXoa 4 ki tu cuoi: "<<xoachuoi(s);

cout<<"\nThay the chao thanh hello: "<<thaythechao(s,s1,s2);

}