Bai VN

#define \_CRT\_NONSTDC\_NO\_WARNINGS

#define \_CRT\_SECURE\_NO\_WARNINGS

#include <stdio.h>

#include <conio.h>

#include <math.h>

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

{

printf("Nhap so phan tu cua mang: ");

scanf\_s("%d", &n);

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

{

printf("Nhap phan tu thu [%d]: ", i);

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

}

}

void xuatmang (int a[], int n)

{

printf("Xuat mang: ");

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

{

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

}

}

void timgiatrixuathiennhieunhat (int a[], int b[], int n)

{

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

{

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

{

if (a[i] == a[j])

{

b[i]++;

}

}

}

int max = 1;

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

{

if (b[i] > max)

{

max = b[i];

}

}

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

{

if (b[i] == max)

{

printf("\nVay phan tu xuat nhieu nhat trong mang la %d va xuat hien %d lan", a[i], b[i]);

break;

}

}

}

long kiemtrasnt (long n)

{

int dem = 0;

for (int i = 1; i <= n; i++)

{

if (n % i == 0)

{

dem++;

}

}

if (dem == 2)

{

return 1;

}

else

{

return 0;

}

}

void demSNT (int a[], int n)

{

int dem = 0;

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

{

if(kiemtrasnt(a[i]) == 1)

{

dem++;

printf("\n%d la so nguyen to", a[i]);

}

else

{

printf("\n%d khong phai la so nguyen to", a[i]);

}

}

printf("\n=> Mang nay co %d so nguyen to\n", dem);

}

void timsochanlonnhat (int a[], int n)

{

int max = a[0];

printf("Cac phan tu so chan co trong mang la: ");

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

{

if (a[i] % 2 == 0 && a[i] > max)

{

max = a[i];

}

}

printf("\nSo chan lon nhat trong mang la: %d\n", max);

}

int main ()

{

int a[100], b[100] = {0}, n;

int chon;

do

{

printf("\n1.Nhap mang");

printf("\n2.Xuat mang");

printf("\n3.Tim gia tri phan tu xuat hien nhieu nhat trong mang, neu so lan xuat hien bang nhau thi xuat pt dau tien");

printf("\n4.Dem so nguyen to trong mang");

printf("\n5.Tim so chan lon nhat trong mang");

printf("\nChon chuc nang: ");

scanf\_s("%d", &chon);

switch (chon)

{

case 1:

{

nhapmang(a, n);

break;

}

case 2:

{

xuatmang(a, n);

break;

}

case 3:

{

timgiatrixuathiennhieunhat(a, b, n);

break;

}

case 4:

{

kiemtrasnt(n);

demSNT(a, n);

break;

}

case 5:

{

timsochanlonnhat(a, n);

break;

}

}

}

while (chon != 0);

return 0;

getch ();

}