Cau 1:

#include <stdio.h>

#include <stdlib.h>

//ham nhap mang

void nhap\_mang(int \*a,int n) {

printf("\nnhap phan tu mang:\n");

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

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

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

}

}

//ham xuat mang

void xuat\_mang(int \*a,int n) {

printf("\ncac phan tu cua mang la: \n");

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

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

}

}

//check day tang

int check\_day\_tang(int \*a, int n){

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

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

return 0;

}

}

return 1;

}

//check so hoan hao

int check\_so\_hoan\_hao(int n){

if (n<0) return 0;

int sum = 0;

for(int i=1;i<=n/2;i++){

if(n%i==0)

sum+=i;

}

if(sum==n) return 1;

return 0;

}

int main()

{

int n;

do {

printf("\nnhap n = ");

scanf("%d",&n);

if (n<=0)

printf("\nn la so nguyen duong. Nhap lai\n");

} while (n<=0);

int \*a= (int\*)malloc(n\*sizeof(int));

printf("phan a \n");

nhap\_mang(a,n);

printf("\nphan b \n");

xuat\_mang(a,n);

printf("\nphan c \n");

if (check\_day\_tang(a, n)==1 ){

printf("\nDay tang");

}else {

printf("\nKhong phai la day tang");

}

printf("\nphan d \n");

printf("Cac so hoan hao co trong day la \n");

int dem =0;

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

if (check\_so\_hoan\_hao(a[i])==1) {

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

dem ++;

}

}

if (dem==0) printf("Khong co \n");

return 0;

}

Cau 2:

#include <stdio.h>

#include <stdlib.h>

//ham nhap mang

void nhap\_mang(float \*a,int n) {

printf("\nnhap phan tu mang:\n");

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

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

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

}

}

//ham xuat mang

void xuat\_mang(float \*a,int n) {

printf("\ncac phan tu cua mang la: \n");

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

printf("%8.3f\t",a[i]);

}

}

int main()

{

int n;

do {

printf("\nnhap n = ");

scanf("%d",&n);

if (n<=0)

printf("\nn la so nguyen duong. Nhap lai\n");

} while (n<=0);

float \*a= (float\*)malloc(n\*sizeof(float));

printf("phan a \n");

nhap\_mang(a,n);

printf("\nphan b \n");

xuat\_mang(a,n);

printf("\nphan c \n");

float sum =0;

printf("\nTong cac so duong la: \n");

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

if (a[i]>0){

sum += a[i];

}

}

printf("%8.3f",sum);

return 0;

}