3.11

#include <stdio.h>

int main()

{

int i,n,s1,s2,s3;

printf("nhap n=");

scanf("%d",&n);

s1=0;s2=0;s3=0;

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

s1=s1+i;

i=1;

while (i<=n)

{

s2=s2+i;

i=i+1;

}

i=1;

do

{

s3=s3+i;

i=i+1;

} while (i<=n);

printf("For: Tong cac so tu 1 den n= %d\n",s1);

printf("While: Tong cac so tu 1 den n= %d\n",s2);

printf("Do...While: Tong cac so tu 1 den n= %d\n",s3);

return 0;

}

3.12

#include <stdio.h>

int main()

{

int i,n,a,s;

printf("nhap n=");

scanf("%d",&n);

s=0;

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

{

printf("nhap so nguyen thu %d= ",i);

scanf("%d",&a);

s=s+a;

}

printf("Tong cac so nguyen nhap vao = %d",s);

}

3.13

#include <stdio.h>

int main()

{

int i,a,dem;

dem=0;

do

{

printf("nhap so tu nhien bat ky ");

scanf("%d",&a);

if (a%2==0) dem=dem+1;

}while (a!=0);

printf("So luong so chan nhap vao %d",dem);

}

3.14

#include <stdio.h>

int main()

{

int i,a,dem,s;

float avg;

s=0;

dem=0;

do

{

printf("nhap so tu nhien bat ky ");

scanf("%d",&a);

if (a>0)

{

dem=dem+1;

s=s+a;

}

}while (a!=0);

avg=(float)s/dem;

printf("Trung binh cong cac so duong nhap vao la %0.2f",avg);

}

3.15

#include <stdio.h>

int main()

{

float a;

int dem;

printf("nhap diem can xet =");

scanf("%f",&a);

dem=1;

while (a<0||a>10)

{

printf("Ban nhap sai vui long nhap lai \n");

printf("Nhap diem can xet =");

scanf("%f",&a);

dem=dem+1;

if (dem>3)

{

printf("ban da nhap sai qua 3 lan, chuong trinh se ket thuc");

return 0;

}

}

if (a>=8) printf("Xep loai: Gioi");

else if (a>=7) printf("Xep loai: Kha");

else if (a>=5) printf("Xep loai: Trung binh");

else printf("Xep loai: Yeu");

}

3.16

3.17

#include <stdio.h>

int main()

{

int a,i;

printf("nhap a= ");scanf("%d",&a);

printf("cac uoc so cua a la ");

for (i=1;i<=a;i++)

if (a%i==0) printf("%d ",i);

return 0;

}

3.18

#include <stdio.h>

int main()

{

int a,b,a1,b1,c;

printf("nhap a=");scanf("%d",&a);

printf("nhap b=");scanf("%d",&b);

a1=a;b1=b;

while (a!=b)

if (a>b) a=a-b;

else b=b-a;

printf("UCLN cua a va b la %d\n",a);

c=a1\*b1/a;

printf("BCNN cua a va b la %d",c);

}

3.19

#include <stdio.h>

int main()

{

int i,j,k;

printf("cac so thoa man yeu cau la ");

for (i=1;i<=9;i++)

for (j=0;j<=9;j++)

for (k=0;k<=0;k++)

if ((i\*100)+(j\*10)+k==(i\*i\*i)+(j\*j\*j)+(k\*k\*k)) printf("%d ",i\*100+j\*10+k);

return 0;

}

3.20

#include <stdio.h>

int main()

{

int n,i,d;

printf("nhap n=");scanf("%d",&n);

d=0;

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

if (n%i==0) d=d+1;

if (d==1) printf("n la so nguyen to");

else printf("n khong phai la so nguyen to");

}

3.21.

#include <stdio.h>

int main()

{

int a,b,i,j,d;

printf("nhap a=");scanf("%d",&a);

printf("nhap b=");scanf("%d",&b);

d=0;

printf("cac so nguyen to tu a den b la\n ");

for (i=a;i<=b;i++)

{

d=0;

for (j=1;j<=i;j++)

if (i%j==0) d=d+1;

if (d==2) printf("%d ",i);

}

}

3.22

#include <stdio.h>

int main()

{

int a,b,c,d,max,min;

printf("Nhap a,b,c,d= ");scanf("%d%d%d%d",&a,&b,&c,&d);

max=a;min=a;

if (min>b) min=b;

if (min>c) min=c;

if (min>d) min=d;

if (max<b) max=b;

if (max<c) max=c;

if (max<d) max=d;

printf("gia tri lon nhat la %d\n",max);

printf("gia tri nho nhat la %d",min);

}

3.23

#include <stdio.h>

int main()

{

int dem,n,s;

printf("Nhap n= ");scanf("%d",&n);

dem=0;s=0;

if (n==0)

{

printf("so chu so cua n= 1\n");

printf("tong cac chu so cua n= 0");

}

else

{

while (n!=0)

{

dem=dem+1;

s=s+n%10;

n=n/10;

}

printf("so chu so cua n= %d\n",dem);

printf("tong cac chu so cua n= %d",s);

}

}

3.24

#include <stdio.h>;

int main()

{

int thang,nam;

printf("Nhap thang can xet ");

scanf("%d",&thang);

do

{

printf("Ban nhap sai. Vui long nhap lai\n");

printf("Nhap thang can xet ");

scanf("%d",&thang);

} while (thang<1||thang>12);

switch(thang)

{

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12: printf("thang co 31 ngay ");

break;

case 4:

case 6:

case 9:

case 11: printf("thang co 30 ngay ");

break;

case 2:

{

printf("nhap nam can xet ");

scanf("%d",&nam);

if (nam%4==0) printf("Thang co 29 ngay");

else printf("Thang co 28 ngay");

}

break;

}

}

3.25

#include <stdio.h>;

int main()

{

int i;

for (i=0;i<=255;i++)

printf("%d %c\n",i,i);

return 0;

}

3.26

#include <stdio.h>;

int main()

{

int i;

for (i=1;i<=100;i++)

{

printf("%d ",i);

if (i%10==0) printf("\n");

}

return 0;

}

3.27

#include <stdio.h>

int main()

{

int i,j;

for (i=2;i<=9;i++)

{

for (j=1;j<=10;j++)

printf("%d \* %d= %d\n",i,j,i\*j);

printf("--------------------\n");

}

return 0;

}

3.28

3.29

#include <stdio.h>

int main()

{

int i;

for (i=1;i<=43;i++)

if (i\*4+(43-i)\*2==100)

printf("So tho la %d va so ga la %d ",i,43-i);

return 0;

}

3.30

#include <stdio.h>

int main()

{

int i,j;

for (i=1;i<=100;i++)

for (j=1;j<=(100-i);j++)

if (5i+3j+(100-i-j)/5==100)

printf("So trau dung la %d; So trau nam la %d; So trau nghe la %d",i,j,100-i-j);

return 0;

}

3.31

#include <stdio.h>

int main()

{

int i,j,n,dem,tc,tl,k;

tc=0;tl=0;k=0;

do

{

k=k+1;

printf("nhap so thu %d = ",k);scanf("%d",&n);

dem=0;

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

if (n%i==0) dem=dem+1;

if (n%2==0) tc=tc+n;

else tl=tl+n;

} while (dem!=2);

printf("tong cac so chan vua nhap la %d\n",tc);

printf("tong cac so le vua nhap la %d\n",tl);

return 0;

}

3.32

#include <stdio.h>

int main()

{

int i,j,n,dem;

printf("nhap n= ");scanf("%d",&n);

for (i=2;i<=n;i++)

{

dem=0;

for (j=1;j<=i;j++)

if (i%j==0) dem=dem+1;

if (dem==2) printf("%d ",i);

}

return 0;

}

3.33

#include <stdio.h>

int main()

{

int i,n;

printf("nhap n= ");scanf("%d",&n);

i=2;

do

{

if (n%i==0)

{

printf("%5d | %3d\n",n,i);

n=n/i;

}

else i=i+1;

if (n==1) printf("%4c1 |");

} while (n!=1);

return 0;

}

3.34

#include <stdio.h>

int main()

{

int i,n,s;

printf("nhap n= ");scanf("%d",&n);

s=0;

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

if (n%i==0) s=s+i;

if (n==s) printf("n la so hoan thien");

else printf("n khong phai la so hoan thien");

return 0;

}