```
//H.1


#include <stdio.h>

#include <stdlib.h>


void display( float a, float b, char ch, float r); void add (floa

void multiply (float a, flaot b);

void divide ( float a, float b);


int main()
```

```
do{
printf("Enter two numbers :
scanf("%f %f", &a, &b);
printf("\n1.Addition");
printf("\n2.Subtraction");
printf("\n3.Multiplication")
printf("\n4.Division");
printf("\n5.Exit");

printf("\nEnter your choice:
scanf("%d", &ch);
```

```
case 5: exit(0);

default: printf("\nInvalid i

}

} while(1); return 0;

}


void add (float a, float b){

float r = a+b;

display (a, b, '+', r);

}

void subtract (float a, floa

float r = a-b;
```

```
display (a, b, '-', r);

}

void display( float a, float

}

//H.2
```

```
int isPerfect (int n);


int main()
{
int i, n, ch;
printf("Enter any integer: "
scanf("%d", &n);


printf ("\n1. Factors of the
printf ("\n5. Number is in F
printf ("\n7. Number is Arms
```

```
case 1: factors (int n);
break;
case 2: primeFactors (int n)
break;
case 3: factorial (int n);
break;
case 4: isPrime (int n);
break;
case 5: isFibonacci (int n);
break;
case 6: count (int n);
break;
```

```
int factors (int n) {

int i;

printf("Factors of %d are :"

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

if(n % i == 0);

{

printf("%d\t", i);

}

}

}


int factorial (int n) {
```

```
int i, ifPrime;

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

{

if(n % i ==0)

{ ifPrime = 0; } else { ifPr

}

return (ifPrime);

}


int count (int n) {

int cnt = 0;

if(n> 0){
```

```
int s = sqrt(n);

if(s*s == n)

return 1;

else

return 0;

}


int primeFactors (int n) {

int n;

factors( isPrime( n));

}
```

```
{
for(int j = 0; j < n-1; j++)
{
if([j] > a[j+1])
{
int temp = a[j];
a[j] = a[j+1];
a[j+1] = temp;
}
}
}
}
```

```
return 0;
}
}
}

int main()
{
int n, m;
printf ("Enter the size of th
\n";);
scanf("%d %d", &n, &m);
```

```
{
scanf("%d",&a2[i]);
}

if( isEqual( a1, a2,n,m) == 
{
printf("Arrays are NOT eqaul
}
else("Arrays are same.");
return 0;
}
```

```
int main()

{

int mat[5][5],i,j, n;



printf("Enter the order N of



printf("Enter the elements o

for(i=0;i<n;i++) // scanning

{

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

```
{
printf("%d\t",mat[i][j]);
}
printf("\n");
}

makeDaigonalZero(mat);
printf("The matrix after mak
for(i=0;i<n;i++)
{
for(j=0;j<n;j++)
{
```

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

{ for(j=0;j<n;j++)

{

if(i==j || (i+j+1) == n) mat

}

printf("\n");

}

}



//H.5
```

```
scanf("%d", &n);


printf("Enter the numbers: "
scanf("%d", &a[i]);
doSort(a);
printf("The number arranged
for(i=0; i<n; i++)
{
printf("%d\n", a[i]);
}
return 0;
}
```

```
{
int e = a[j];
a[j] = a[j+1];
a[j+1] = e;
}
}
}
}
```