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l41.c

```
#include <stdio.h>

void getMax(int a, int b, int c, int d);
void getMin(int a, int b, int c, int d);

void main(){
    int arr[4];
    for (int i=0; i<4; i++){
        printf ("Enter Number %d : ",i+1);
        scanf ("%d",&arr[i]);
    }
    getMax (arr[0],arr[1],arr[2],arr[3]);
    getMin (arr[0],arr[1],arr[2],arr[3]);
}

void getMax(int a, int b, int c, int d){
    int max;
    if (a>b && a>c && a>d){
        printf ("The Max Number = %d\n",a);
    }
    else if (b>a && b>c && b>d){
        printf ("The Max Number = %d\n",b);
    }
    else if (c>a && c>b && c>d){
        printf ("The Max Number = %d\n",c);
    }
    else if (d>a && d>b && d>c){
        printf ("The Max Number = %d\n",d);
    }
    else {
        printf ("All Numbers are equal to %d",a);
    }
}

void getMin(int a, int b, int c, int d){
    int max;
    if (a<b && a<c && a<d){
        printf ("The Min Number = %d\n",a);
    }
}
```

Windows PowerShell

```
PS C:\Users\pc\Documents\C (notepad)> gcc l41.c -o l41.exe
PS C:\Users\pc\Documents\C (notepad)> ./l41.exe
Enter Number 1 : 1
Enter Number 2 : 2
Enter Number 3 : 3
Enter Number 4 : 4
The Max Number = 4
The Min Number = 1
PS C:\Users\pc\Documents\C (notepad)> ./l41.exe
Enter Number 1 : 1
Enter Number 2 : 1
Enter Number 3 : 1
Enter Number 4 : 1
All Numbers are equal to 1
PS C:\Users\pc\Documents\C (notepad)>
```

```
void getMax(int a, int b, int c, int d){  
    int max;  
    if (a>b && a>c && a>d){  
        printf ("The Max Number = %d\n",a);  
    }  
    else if (b>a && b>c && b>d){  
        printf ("The Max Number = %d\n",b);  
    }  
    else if (c>a && c>b && c>d){  
        printf ("The Max Number = %d\n",c);  
    }  
    else if (d>a && d>b && d>c){  
        printf ("The Max Number = %d\n",d);  
    }  
    else {  
        printf ("All Numbers are equal to %d",a);  
    }  
}  
  
void getMin(int a, int b, int c, int d){  
    int max;  
    if (a<b && a<c && a<d){  
        printf ("The Min Number = %d\n",a);  
    }  
    else if (b<a && b<c && b<d){  
        printf ("The Min Number = %d\n",b);  
    }  
    else if (c<a && c<b && c<d){  
        printf ("The Min Number = %d\n",c);  
    }  
    else if (d<a && d<b && d<c){  
        printf ("The Min Number = %d\n",d);  
    }  
}
```

```
Windows PowerShell  
PS C:\Users\pc\Documents\C (notepad)> gcc 141.c -o 141.exe  
PS C:\Users\pc\Documents\C (notepad)> ./141.exe  
Enter Number 1 : 1  
Enter Number 2 : 2  
Enter Number 3 : 3  
Enter Number 4 : 4  
The Max Number = 4  
The Min Number = 1  
PS C:\Users\pc\Documents\C (notepad)> ./141.exe  
Enter Number 1 : 1  
Enter Number 2 : 1  
Enter Number 3 : 1  
Enter Number 4 : 1  
All Numbers are equal to 1  
PS C:\Users\pc\Documents\C (notepad)>
```



```
#include <stdio.h>

void add (int x , int y); //1
void sub (int x , int y); //2
void mul (int x , int y); //3
void div (int x , int y); //4
void And (int x , int y); //5
void Or (int x , int y); //6
void Not (int x); //7
void Xor (int x , int y); //8
void remain (int x , int y); //9
void increment (int x); //10
void decrement (int x); //11
```

```
void main(){
    int id ,x,y;
    printf ("Enter the operation ID : ");
    scanf (" %d",&id);
    if (id != 7 && id!=10 && id!=11){
        printf ("Enter Number 1 : ");
        scanf (" %d",&x);
        printf ("Enter Number 2 : ");
        scanf (" %d",&y);
    }
    else {
        printf ("Enter A Number : ");
        scanf (" %d",&x);
    }
    switch (id){
        case 1 : add(x,y); break;
        case 2 : sub(x,y); break;
        case 3 : mul(x,y); break;
        case 4 : div(x,y); break;
        case 5 : And(x,y); break;
        case 6 : Or (x,y); break;
        case 7 : Not(x); break;
        case 8 : Xor(x,y); break;
        case 9 : remain(x,y); break;
        case 10 : increment (x); break;
        case 11 : decrement (x); break;
        default : printf ("Incorrect Value"); break;
    }
}
```

Windows PowerShell

```
PS C:\Users\pc\Documents\C (notepad)> gcc 142.c -o 142.exe
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 1
Enter Number 1 : 4
Enter Number 2 : 2
4 + 2 = 6
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 4
Enter Number 1 : 2
Enter Number 2 : 3
2 / 3 = 0.666667
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 7
Enter A Number : 4
~ 4 = -5
PS C:\Users\pc\Documents\C (notepad)>
```



```

31.c x l42.c x l41.c x
3
4
5 void add (int x , int y){
6     printf ("%d + %d = %d",x,y,(x+y));
7 }
8
9 void sub (int x , int y){
0     printf ("%d - %d = %d",x,y,(x-y));
1 }
2
3 void mul (int x , int y){
4     printf ("%d * %d = %d",x,y,(x*y));
5 }
6
7 void div (int x , int y){
8     printf ("%d / %d = %f",x,y,((float)x/y));
9 }
0
1 void And (int x , int y){
2     printf ("%d & %d = %d",x,y,(x&y));
3 }
4
5 void Or (int x , int y){
6     printf ("%d | %d = %d",x,y,(x|y));
7 }
8
9 void Not(int x){
0     printf ("~ %d = %d",x,(~x));
1 }
2
3 void Xor (int x , int y){
4     printf ("%d ^ %d = %d",x,y,(x^y));
5 }
6
7 void remain (int x , int y){
8     printf ("%d % %d = %d",x,y,(x%y));
9 }
0
1 void increment(int x){
2     printf ("%d++ = %d",x,(x++));
3 }
4

```

Windows PowerShell

```

PS C:\Users\pc\Documents\C (notepad)> gcc 142.c -o 142.exe
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 1
Enter Number 1 : 4
Enter Number 2 : 2
4 + 2 = 6
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 4
Enter Number 1 : 2
Enter Number 2 : 3
2 / 3 = 0.666667
PS C:\Users\pc\Documents\C (notepad)> ./142.exe
Enter the operation ID : 7
Enter A Number : 4
~ 4 = -5
PS C:\Users\pc\Documents\C (notepad)>

```