

## CONTROL STATEMENTS

```
1.#include<stdio.h>
int main()
{
int num=45;
if(num>>3&4)
num=num<<2;
else
num=num>>5;
printf("%d",num);
}
```

```
2.#include<stdio.h>
int main()
{
int r,s=25;
if(r++=s++)
printf("%d",r);
else
printf("%d",s);
}
```

```
3.#include<stdio.h>
int main()
{
int x=-1;
if(x)
{
x=1;
if(!x)
printf("Joy");
else
printf("Happy");
}
else
{
printf("Blissful");
}
}
```

4.What is the purpose of using break statement in c and where it can be used.

```
5. #include<stdio.h>
int main()
{
char ch=259;
int x=2;
if(ch == ++x )
printf("ABC");
else
printf("DEF");
```

}

```
6.#include <stdio.h>
int main() {
int a=20,b=6;
if(a==5)
b++;
printf("%d %d",++a,b++);
}
```

```
7.#include<stdio.h>
int main()
{
int x= 99,y=87;
if(y++,x > 100);
printf("Hello");
printf("Hi");
}
```

```
8.#include <stdio.h>
int main() {
int val1,val2=100,num=500;
if(val1==val2%2)
num=200;
printf("%d %d %d",val1,val2,num);
}
```

9. Write a program that takes years as input and check if it is a leap year or not.

```
10.#include<stdio.h>
int main()
{
int x = 0;
if (x == 1)if (x >= 0)
printf("true\n");
else
printf("false\n");
}
```

```
11.#include<stdio.h>
int main(){
int i = 0, j = 1, k = 0;
if(++k, j, i++)
printf("%d %d %d", i, j, k);
return 0;
}
```

```
12. #include<stdio.h>
int main()
{
int i = 65;
switch(i)
```

```
{  
case 65:  
printf("Integer 65");  
break;  
case 'A':  
printf("Char 65");  
break;  
default:  
printf("Bye");  
}  
return 0;  
}
```

```
13.#include<stdio.h>  
int main()  
{  
int i = 5, j = 6, k = 7;  
if(i > j == k)  
printf("%d %d %d", i++, ++j, --k);  
else  
printf("%d %d %d", i, j, k);  
return 0;  
}
```

```
14.#include<stdio.h>  
int main()  
{  
int i = 5;  
if(i = i - 5 > 4)  
printf("inside if block");  
else  
printf("inside else block");  
return 0;  
}
```

```
15.#include<stdio.h>  
int main()  
{  
switch(2/2)  
{  
case 1:  
printf("case 1 executed ");  
case 2:  
printf("case 2 execcuted ");  
break;  
default:  
printf("Default block executed");  
}  
return 0;  
}
```

```
16.#include<stdio.h>
```

```
int main()
{
printf("%d ", 1);
goto l1;
printf("%d ", 2);
l1:goto l2;
printf("%d ", 3);
l2:printf("%d ", 4);
}
```

```
17.#include<stdio.h>
int main()
{
int i = 0;
if (i == 0){
printf("Hello");
continue;
}
}
```

```
18.#include<stdio.h>
int main()
{
int i=10,j=20;
if(i++,i++,j<20)
{
printf("hai");
goto l;
}
else
printf("hi");
l:printf(" %d",i);
}
```

```
19.#include<stdio.h>
int main()
{
int a=0,b=2,c=3,d=1;
if(b|a&&d)
printf("hai\n");
if(a|--d&&c)
printf("hello");
else
printf("bye");
}
```

```
20.#include<stdio.h>
int main()
{
int a=5,b=6;
switch(a&b)
{
```

```
case 2+2:printf("One");
case 5*1 :printf("Two");break;
case 20/5-1:printf("Three");
default:printf("def");break;
}
}
```

```
21.#include<stdio.h>
int main()
{
int res=1;
switch(res/5)
{
case 1:printf("case 1");
case 0:printf("case 0");
case 2:printf("case 2");break;
default:printf("def");
}
}
```

```
22.#include<stdio.h>
int main()
{
int p=-1;
p>>=2;
if(p&~p<<3)
printf("if");
else if(p)
printf("else if");
else
printf("else");
}
```

```
23.#include<stdio.h>
int main()
{
int a=10;
if(a-=a*a-a)
printf("Good\n");
else
printf("Better\n");
printf("%d",a);
}
```

```
24.#include<stdio.h>
int main()
{
int i=0,l=10;label:
i+=2;
printf("%d ",i);
if(i++<l)
goto label;
```

```
printf("%d ",i);
}
```

```
25. #include<stdio.h>
int main()
{
int c=55.0;
switch(c)
{
case 54:printf("English");
break;
case 55.0:printf("Maths");
break;
}
}
```

```
26.#include<stdio.h>
int main()
{
int s=5;
s*s:printf("Hi ");
printf("Hello\n");
if(8>>3+5)
goto s*s;
}
```

```
27.#include<stdio.h>
int main()
{
float f=5.6;
if(f==5.6)
printf("hi\n");
else if(f==(float)5.6)
printf("hello\n");
else if(f==5.6f)
printf("hai");
}
```

```
28.#include<stdio.h>
int main()
{
char a='A',b='B';
q:
printf("%c",a-18);
printf("%c\n",b-19);
break;
goto q;
}
```

```
29. #include<stdio.h>
int main()
{
```

```
int num='1';
switch(--num,num++)
{
default:printf("default\n");
case 47:printf("case 47\n");
case 48:printf("case 48\n");
case 49:printf("case 49\n");
}
}
```

```
30.#include<stdio.h>
int main()
{
if('0')
printf("hi");
printf("hello");
else
printf("bye");
}
```

```
31.#include<stdio.h>
int main()
{
int a = 1;
if(a--)
printf("A");
if(a++)
printf("B");if(!a)
printf("C");
if(!!a)
printf("D");
}
```

```
32.#include<stdio.h>
int main()
{
int x1=5,x2=6,x3=6;
if(x1<x2>>1)
printf("yes");
if(x3<=x2>>0)
if(x1=3,x2=0)
printf("%d",x2);
else
printf("%d",x1);
}
```

```
33.#include<stdio.h>
int main()
{
double d=12.7;
int i=d;
switch(d++,i++)
```

```
{  
case 10:printf("One");  
case 11:printf("Two");  
case 12:printf("Three");  
}  
}  
}
```

```
34.#include<stdio.h>  
int main()  
{  
int a=5;  
label1:  
if(a--,++a)  
printf("%d ",a);  
a++;  
if(a==10)  
goto label2;  
goto label1;label2:  
a/=a+3;  
printf("%d",a);  
}
```

```
35.#include<stdio.h>  
int main()  
{  
if(sizeof(0)==sizeof('0'))  
printf("Equal");  
else  
printf("Not equal");  
}
```

```
36.#include<stdio.h>  
int main()  
{  
l:  
goto m;  
s:  
printf("hi");  
m:  
goto s;  
}
```

```
37.#include<stdio.h>  
int main()  
{  
int i=5,j=6;  
if(i++<--j)  
if(0,--i>j++,i-=5)  
printf("c");  
else if(++i)  
printf("c++");  
else
```

```
printf("python");
}
```

38. #include<stdio.h>  
int main()  
{  
int i = 0;  
switch(++i){  
case 0 : i++;  
case 1 : i++ +2;  
case 2 : ++i;  
}  
printf("%d",i++);  
return 0;  
}

39. #include<stdio.h>  
int main()  
{  
switch(25)  
{  
case 25L:  
printf("25L");  
break;  
case 26:  
printf("26");  
break;  
default:  
printf("Nothing");  
break;  
}  
return 0;  
}

40. Write a program to find the second largest number using nested if.

41. #include<stdio.h>  
int main(){  
int n = 4;  
switch(n)  
{  
case 1:  
printf("Hai case 1 ");  
default:  
printf("Hai default ");  
case 2:  
printf("Hai case 2 ");  
case 3:  
printf("Hai case 3 ");  
}return 0;  
}

```
42. #include<stdio.h>
int main()
{
int m=10,n=20;
if(m/n/m)
goto o;
printf("Operating ");
o:
printf("System\n");
}
```

43.What is the difference between if else and switch statement?

44. Which datatype can accept the switch statement?

- a) int
- b) char
- c) long int
- d) all of the mentioned

```
45. #include <stdio.h>
int main()
{
int a = 1, b = 1;
switch (a)
{
case a*b:
printf("yes ");
case a-b:
printf("no\n");
break;
}
}
```

```
46. #include<stdio.h>
int main(){
switch(true)
case true:
printf("Hai. This is True");
break;
case false:
printf("Hai. This is False");break;
default:
printf("Bye.");
break;
return 0;
}
```

```
47. #include <stdio.h>
int main()
{
printf("%d ",1);
```

```
goto l1;
printf("%d ", 2);
l1:l2:
printf("%d\n", 3);
goto l2;
}
```

48. #include <stdio.h>

```
int main()
{
int i = 0;
if (i == '0')
{
goto label;
}
label: printf("Hello");
}
```

49. #include<stdio.h>

```
int main()
{
int m=15,n=25,p=0;
if(1>0?m<n?m++:p++:n++)
printf("true\n");
printf("%d %d %d",m,n,p);
}
```

50. #include<stdio.h>

```
int main()
{
int i = 0;
if(++i){
i == -i?i = 0:i = 1;
}
printf("%d", i);
return 0;
}
```