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.

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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 \ge 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);
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 11;
printf("%d ", 2);
11:goto 12;
printf("%d", 3);
12: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 1;
     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\&\sim 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;
```

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label:
     i+=2;
     printf("%d ",i);
     if(i++<1)
     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 \le 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()
{
1:
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;
pritnf("%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
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 11;
printf("%d", 2);
11:12:
printf("%d\n", 3);
goto 12;
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++,n++:m++,p++:m++,p++)
          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;
}
```