CS & IT ENGINEERING

2024

C-Programming

Control Flow Statements

DPP Discussion Notes

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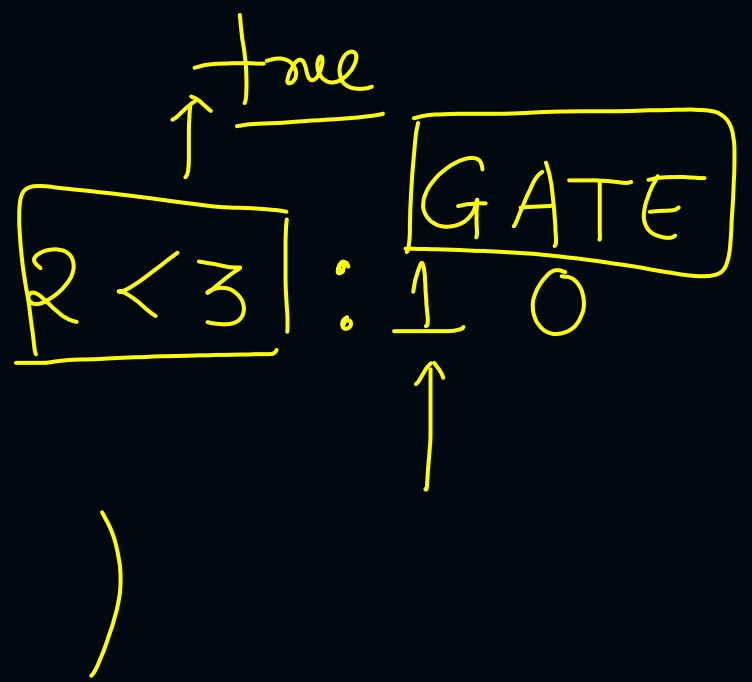
[NAT]

#Q.

```
#include <stdio.h>
int main(void)
{
    int i = 2, j = 3, k = 4;
    if (i < j ? 1 : 0)
    printf("GATE");
else
    printf("Wallah2023");
return 0;
}
```



The output of the program is _____.

[MCQ]

#Q.

```
#include <stdio.h>
void main( )
{
    int a, b, c, d;
    a = 2; b = –1; c = 3; d = –4;
    if(a = b – c – d)
    printf(“%d%d%d”, a++, b--, c++);
else
    printf(“%d%d%d”, c--, ++ a, ++b);
}
```

The output is _____.

a = -1 – 3 – (-4)

–4 + 4 = 0

a 0 update

3 1 0

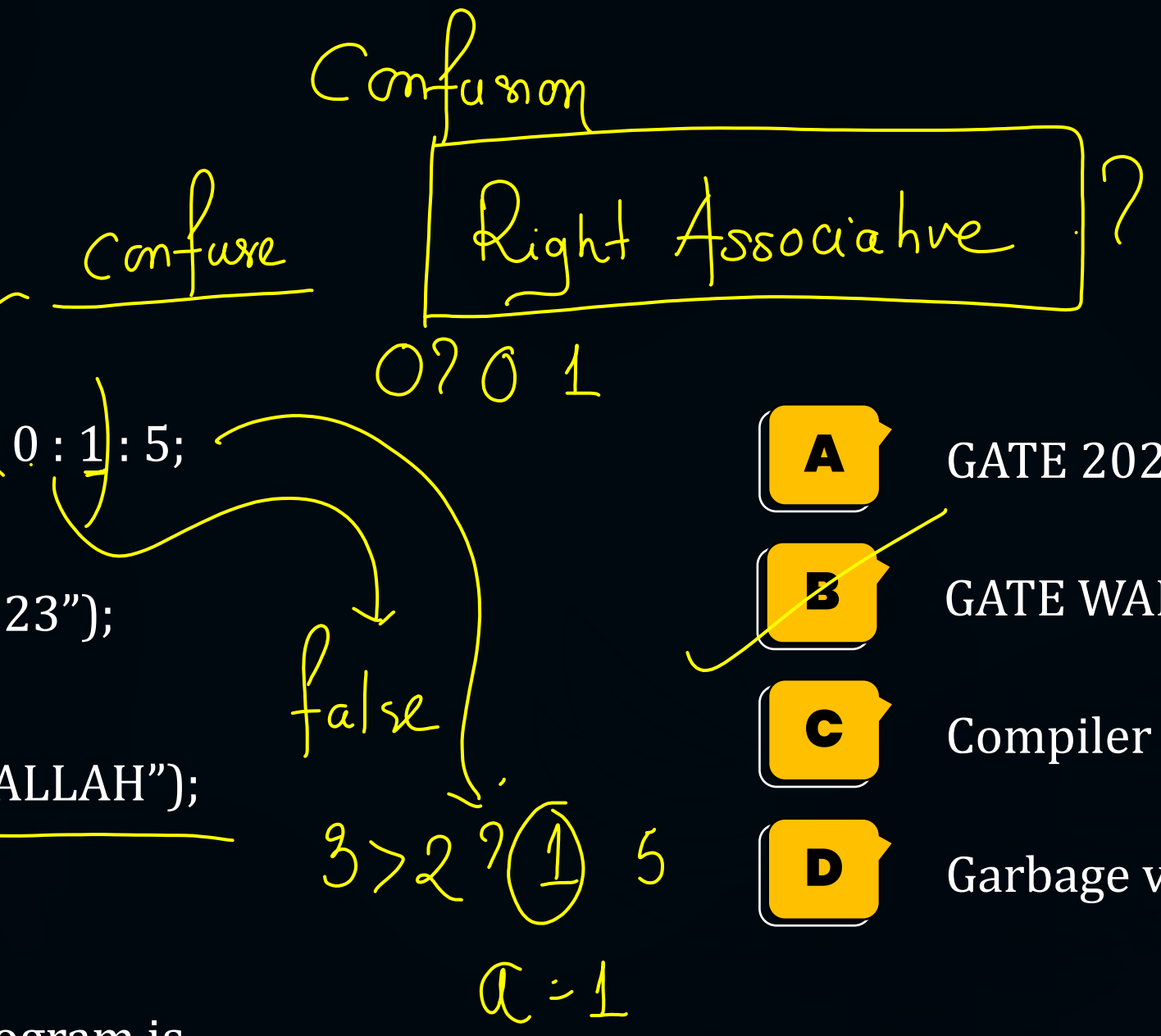
A	1 –2 4
B	3 1 0
C	2 1 –3
D	3 3 0

[MCQ]

#Q.

```
#include <stdio. h>
int main(void)
{
    int a = 3 > 2 ? 0 ? 0 : 1 : 5;
    if(a == a – 1)
    print f(“GATE 2023”);
 else
    print f(“GATE WALLAH”);
return 0;
}
```

The output of the program is _____.



A. GATE 2023

B. GATE WALLAH

C. Compiler error

D. Garbage value

[NAT]

#Q.

```
#include <stdio .h>
void main( )
{
        int a;
        a = printf("GATE  Wallah 2023");
        if(a%4 == 0)
        a = a + 5;
else
        a = a – 5;
        printf("%d", a++);
}
```

Space will be counted

4 + 1 + 6 + 1 + 4

a = 16

16

16 % 4 == 0

16 + 5 = 21

21

post increment

The value of a at the end of the program is ___.

22

[NAT]

#Q.

```
#include <stdio.h>
void main( ){
        int i, j, k;
        j = 4; k = 0;
i = j < k ? k : j --;
if(j < i)
        j = j + k – 1;
if(j = = i)
        j = j – i;
else
        j = j + -- k,
printf(“%d”, j + k – i);
}
```

The output is ___.

i = 4 < 0 ? k : j - -

i = 4 ; j 3

3 < 4

j = 3 + 0 - 1 ; j = 2 ; k -1

j = j + - - k = 2 + (-1)

2 - 1 = 1 ✓

-4 1 -1

[NAT]

#Q. Consider the following program:

```
#include<stdio.h>
int main()
{
        int a=19, b=20;
        if(a++<b--) printf("%d",a+++--b);
else    printf("%d", ++a+--b);
return 0;
}
```

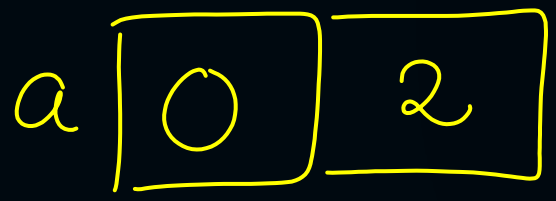
The output is _____.

[MCQ]

#Q.

```
#include<stdio.h>
void main()
{
        int a=0;
        printf("%d", a);
if(a=2){
        printf("Hi");
        printf("%d",a);
}else{
        printf("Bye");
}
        printf("%d", a);
}
```

The output string is:



0Hi22

true

A. 0Hi22

B. 0Hi20

C. 0Bye0

D. 0Hi00

[MCQ]

#Q.

```
#include<stdio.h>
void main()
{
    int a=0, b=0;
    a=(a=4)||(b=1);
    if(a&&b)
        printf("CProgramming");
    else
        printf(“GATE");
    printf(“%d”, b);
}
```

The output is-

A. CProgramming0

B. CProgramming1

C. GATE0

D. GATE1

THANK - YOU