

(Video 11) C Programming (Important Question 1)

1. What is the output?

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

```
int main()
```

```
{
```

```
printf("%d", printf("Hello world!\n"));
```

```
return 0;
```

```
}
```

number of characters print

string print

string?

String

0

correct Answer [Hello world!\n]

→ %s is used to print "string of characters"

→ printf not only print the content on the screen.

It also returns the number of the characters that is successfully prints on the screen.

Hello World!

12 characters

255+10=265 But character has max range 255 255

So after 255 it will repeat 256

00000000 = 0
00000001 = 1
00000010 = 2

3. int main() {

char c = 255;

c = c + 10;

printf("%d", c);

return 0;

}

→

c = 255

not integer

10

Some character from ASCII



char c = 255;

Character type 1 byte / 8 bit कक्ष निम्न

255 → 1111 1111 → max value for 8 bit

c = c + 10

c = 265

→ 100001001 → 9 digit

but available 8 digit

printf("%d", c)

$\square \bmod 2^n$

$265 \bmod 2^8$

= 265 mod 256

connect Answer 9

remainder - 9

265 → 100001001 = 9
only 8 bit
space
so,
out 255
after 255
9 represent

4. which one connect?

i) signed int i;

ii) signed i;

iii) unsigned i;

iv) long i;

v) long int i;

vi) long long int i;

All are connect

compiler automatically

assume,

it is integer

So, signed int i

and signed i are same

and so the other

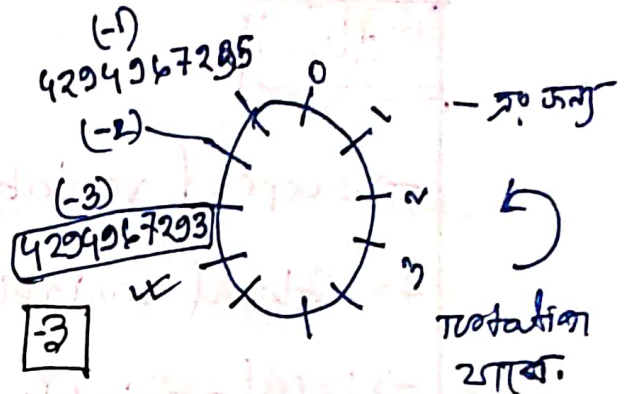
```
5. int main() {
```

Unsigned i = 1;

$$\dot{i} \cap \dot{j} = -4 \dot{j}$$

```
printf("u^n, i+j");
```

testun 0;



→ 0% 2mm → $\boxed{-3}$ output corner

3.

%u ଅ ଜ ଅ unsigned int ହିସାବ count କରାଏ

- 3rd binary represent for 2nd item von 1 ✓

-3 in 2's complement representation:

$$\boxed{50, \begin{pmatrix} 32 \\ 2 & -1 \end{pmatrix} - 2}$$

old = 4294967293

Step 1: Take 1s complement of 3

Answer

3 = 00000000 00000000

$\frac{00000000}{000000} \text{ binar, dann richtig}$

Is complement of $\mathcal{B} = \{ \dots \}$

11111111 99999900

Step 2: Add 1 to the result.

[illegible]

$$2^{32}_{-1} = 4294967295$$

4294967293

$10 - 24$
 $11 - 25$