

Ex

$x = 6$

while ($x \leq 5$)

```
{
    printf("\n %d", x);
    x = x + 1;
}
```

x	$x \leq 5$	printf("\n %d", x)	$x = x + 1$
6	$6 \leq 5$ ⊕		

→ top.

In the above example condⁿ is false for the first time itself hence no instructions within the loop will be executed.

Prove the following code & give the o/p.

$x = 1$;

while ($x \geq 1$)

```
printf("\n %d", x);
x = x + 1;
```

x	$x \geq 1$	printf("\n %d", x)	$x = x + 1$
1	$1 \geq 1$ ⊕	1	$2 = 1 + 1$
2	$2 \geq 1$ ⊕	2	$3 = 2 + 1$
3	$3 \geq 1$ ⊕	3	$4 = 3 + 1$
4		4	$5 = 4 + 1$
⋮		⋮	

unterminated loop