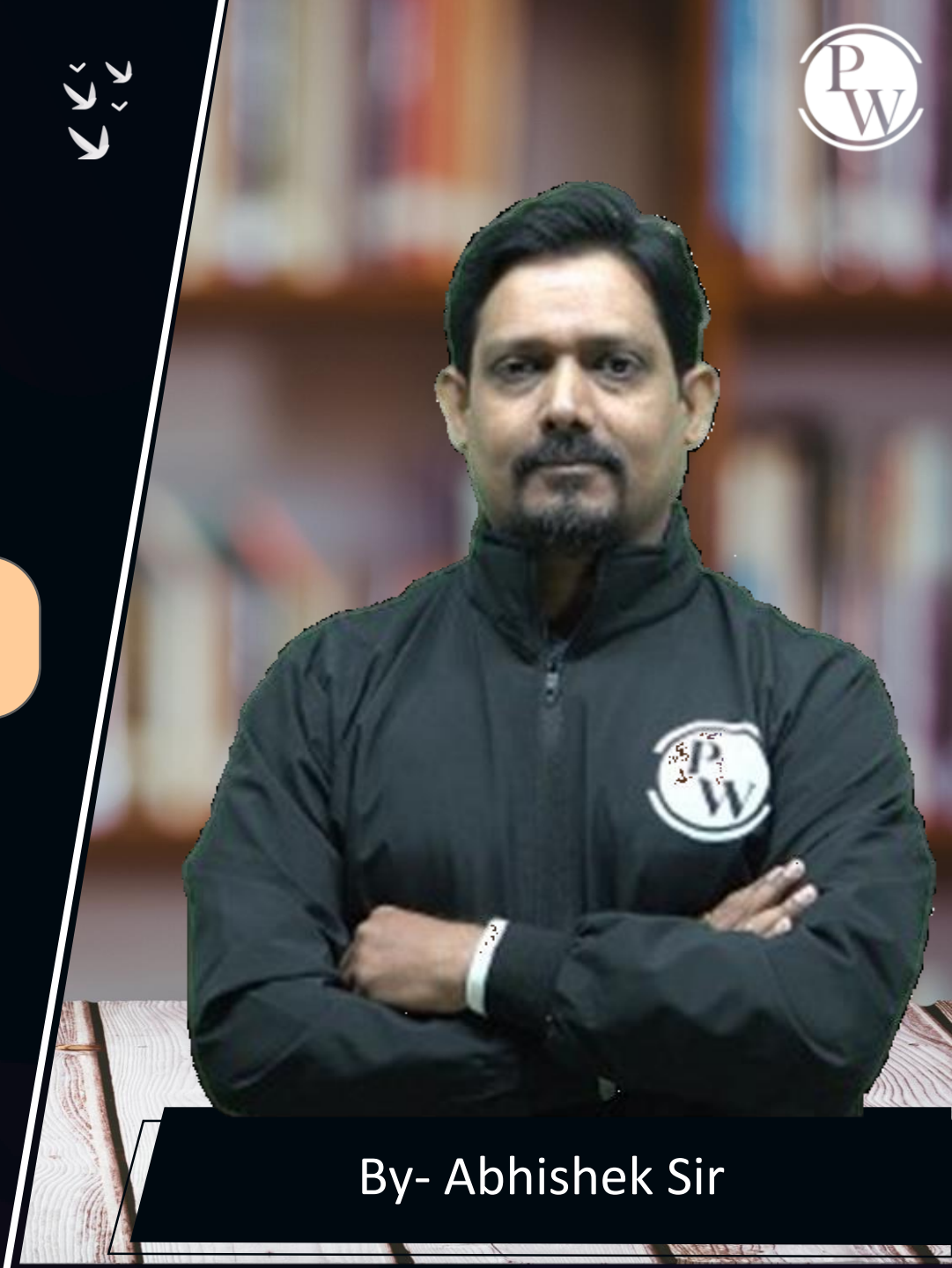
CS & IT ENGINEERING

C-Programming

Function & Storage Class Discussion Notes

DPP.- 01



By- Abhishek Sir

[NAT]

#Q. Consider the following program:

```
#include<stdio.h>
int f2(int a){
    int b=0;
    b=b+5;
    return a*b;
}
int f1(int a){
    int b;
    b=f2(a);
    return a*b;
}
int main(){
    int i, a=5, b=4;
    for(i=0;i<2;i++){
        b-=f1(a)-f2(a);
        printf("%d\t", b);
    }
    return 0;
}
```

The sum of the printed values is _____

[NAT]

#Q. Consider the following program:

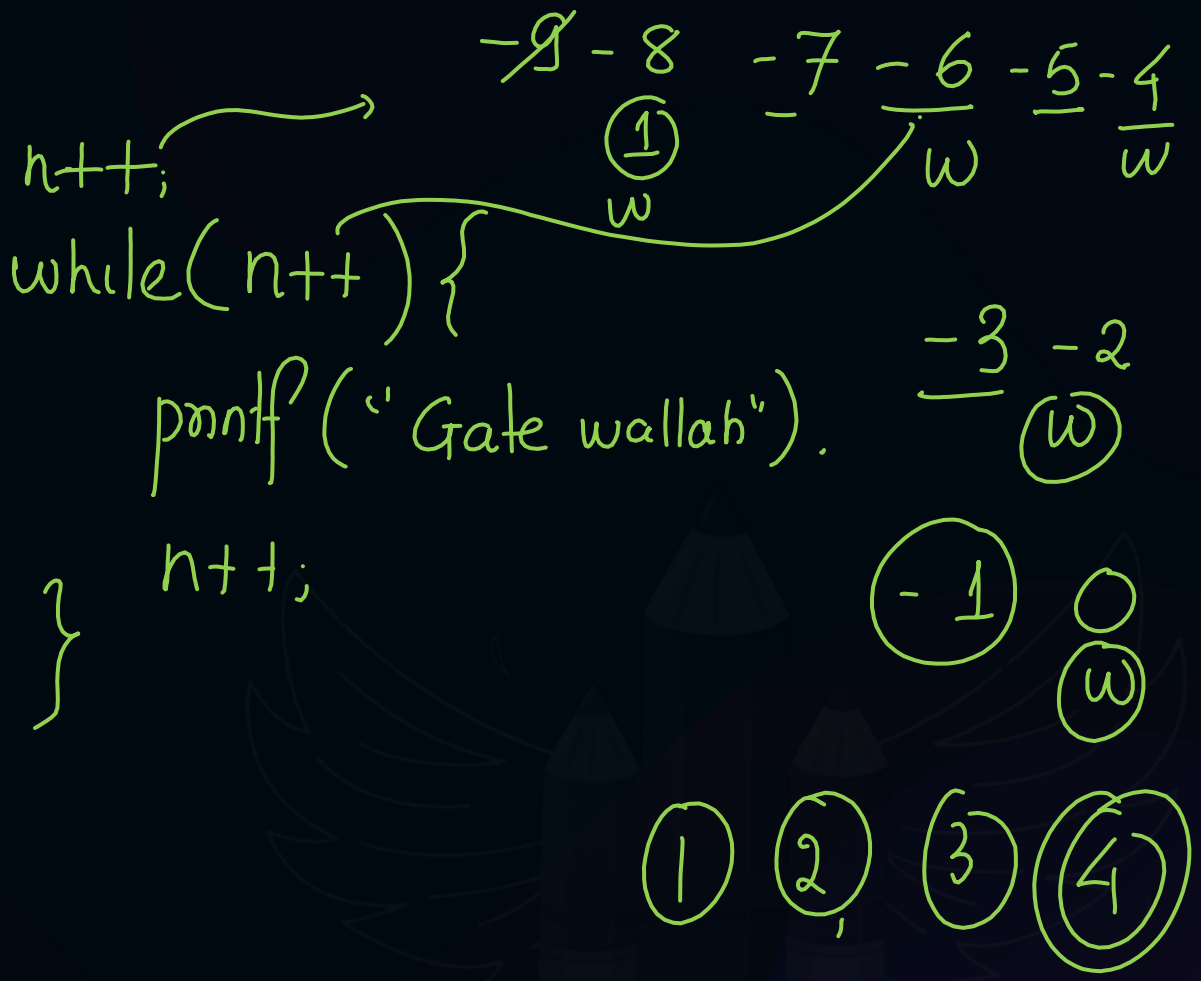
```
#include<stdio.h>
int f2(int a){
    int b=0;
    b=b+5;
    return a*b;
}
int f1(int a){
    int b;
    b=f2(a);
    return a*b;
}
```

[MCQ]

#Q. Consider the following program:

```
#include<stdio.h>
void print(int n){
   for(n++;n++;n++)
   printf("GATE Wallah");
}
int main(){
   void print();
   void print();
   print(-9);
   return 0;
}
```

Which of the following is correct?



A Compilation error

B “GATE Wallah” will be printed infinite number of times.

C “GATE Wallah” will be printed 5 times.

D “GATE Wallah” will be printed 4 times.

[MCQ]

#Q. Consider the following program.

```
#include<stdio.h>
void f(int n){
   switch(n<<1+n){
     default: printf("Sresth");
     case 4: printf("Parakram");
     case 3: printf("2024");
     break;
     case 2: printf("2025");
   }
}
int main(){
   f(1);
   return 0;
}
```

The output is-

n = 1

n << 1+1

1 << 2 = 1 × 2² = 4

A Parakram2024

B SresthParakram2024

C Parakram

D Sresth2025

[NAT]

#Q. Consider the following program:

```
#include<stdio.h>
int f(int b, int a){
    int x;
    x=a<<b;
    b=x*a--;
    return a+b-x;
}
int main(){
    printf("%d", f(1,2));
    return 0;
}
```

The value printed is _____.

f(1,2) x [4] a [2] [1]

1 2

x = 2 << 1 = 2 x 2^1 = 4

b = 4 * 2 = (8)

1 + 8 - 4 = (5)

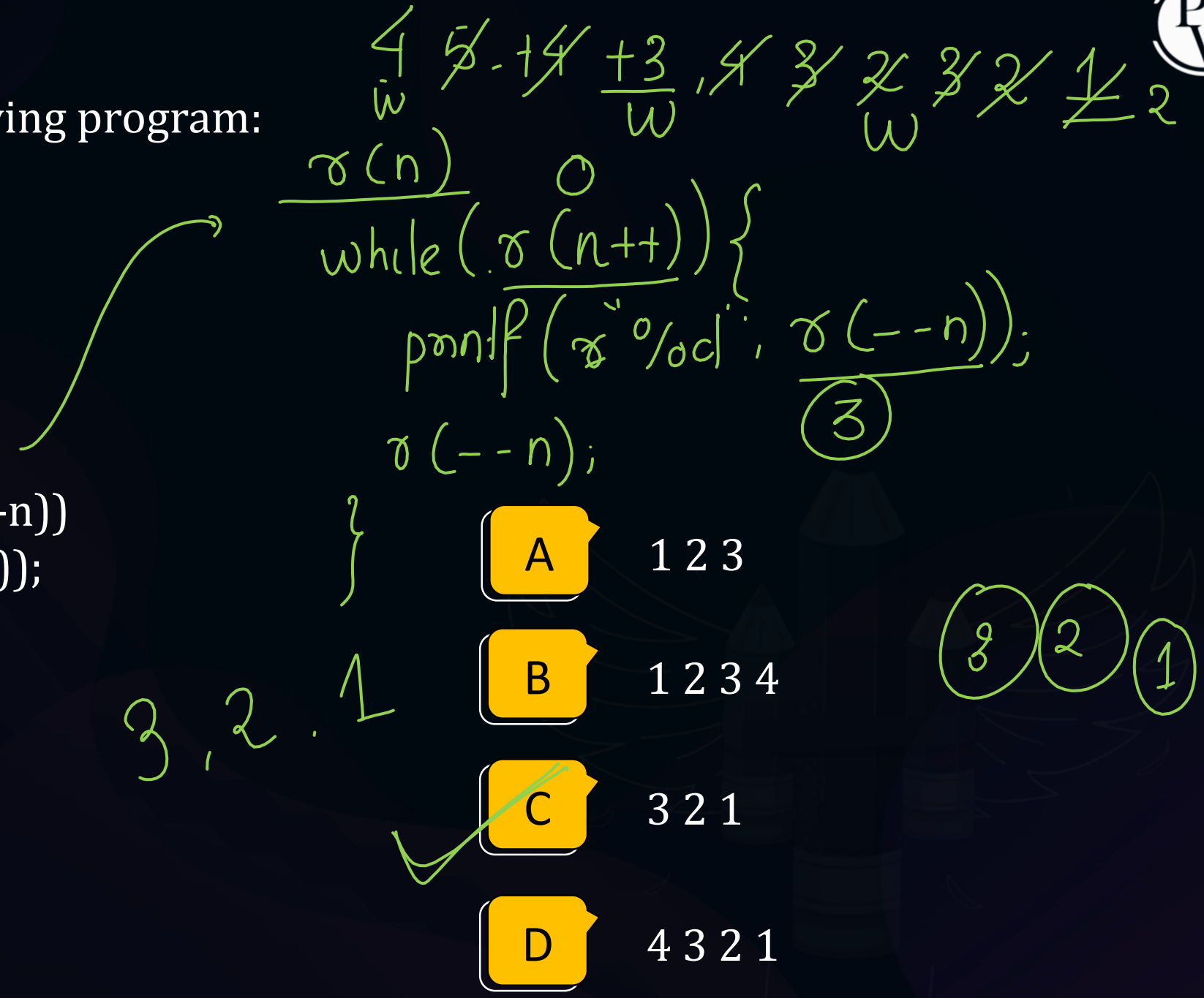
(5)

[MCQ]

#Q. Consider the following program:

```
#include <stdio.h>
int r(int num){
return --num;
}
int main(){
int n=4;
for (r(n);r(n++);r(--n))
printf("%d\t",r(--n));
return 0;
}
```

The output is-



THANK - YOU