CS & IT ENGINEERING

Programming in C

Functions and Storage Classes

DPP-01 Discussion Notes

By- Pankaj Sharma sir

01 Question

02 Discussion

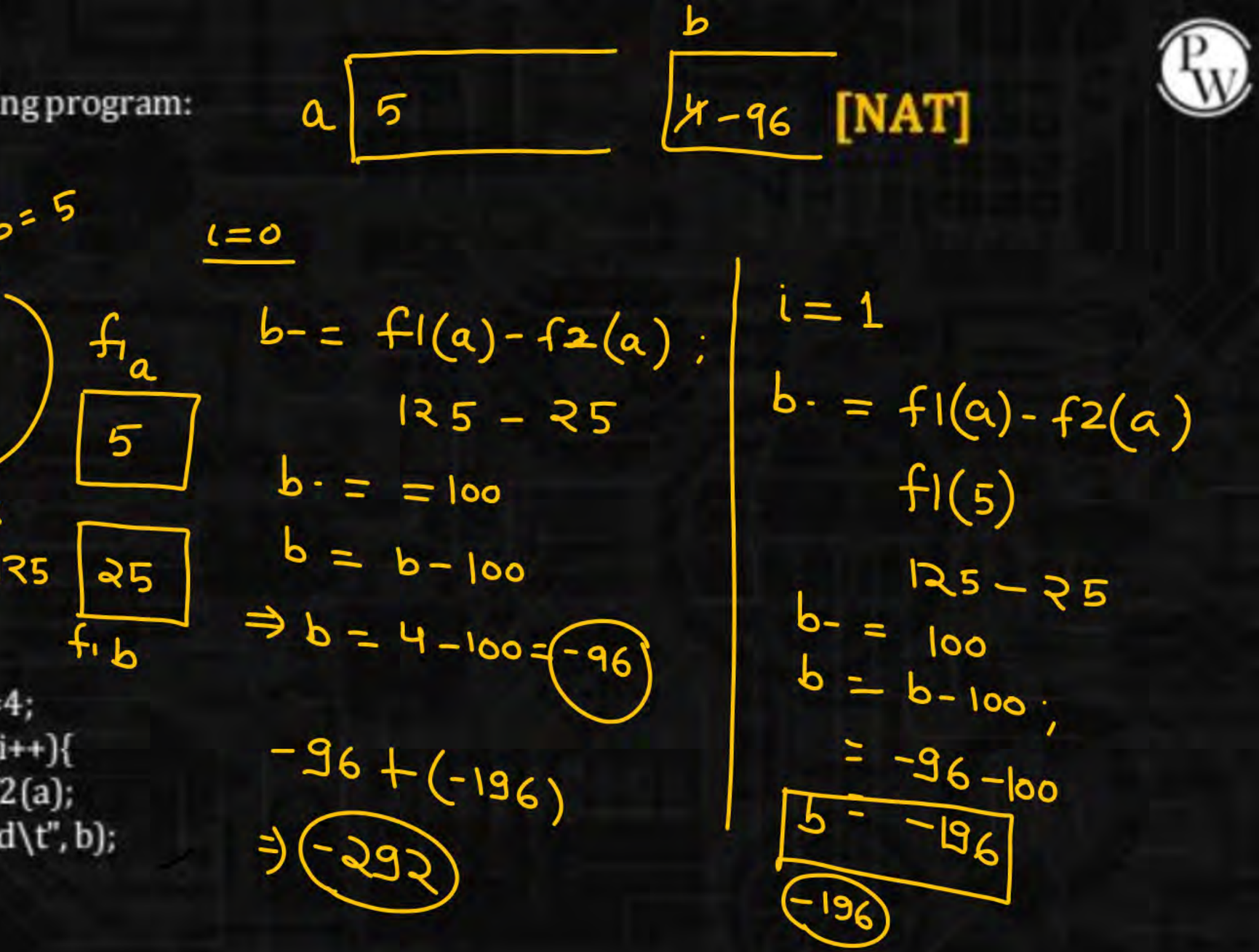
Q.1

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.2

[MCQ]

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.

Q.3

[MCQ]

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+n

1+1

n << 2

⇒ n x 2^2

⇒ 1 x 2^2

⇒ 4

A

A. Parakram2024

B. SresthParakram2024

C. Parakram

D. Sresth2025

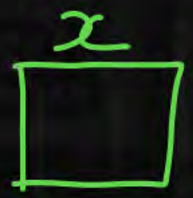
Q.4

Consider the following program:

```
#include<stdio.h>
void f(){
int x;
x=10<5?printf("%d",
printf("GATE")):printf("")?printf("2024"):printf("%d",printf("Wallah
    Parakram"));
}
int main(){
    f();
    return 0;
}
```

The output is-

[MCQ]



x = pf("%d", pf("Wallah Parakram")); 15

exp3

x = pf("")?pf("2024"):pf("%d", pf("Wallah Parakram"));

exp1 exp2

x = 10<5 ? pf("%d", pf("GATE")) : pf("")?pf("2024"):pf("%d", pf("Wallah Parakram"));

exp1 exp2 exp3

False

A. GATE2024

B. Wallah Parakram15

C. GATEWallah Parakram4

D. GATE4

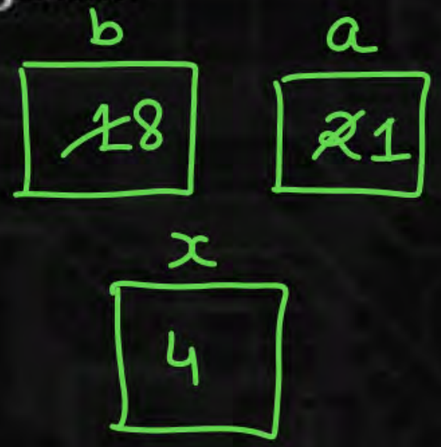
Q.5

[NAT]

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 _____.



2<<1
⇒ 2x2¹ ⇒ 4

b = x x a--

1 + 8 − 4
= 5

(i) use a
(ii) a = a-1

b = x x a
a = a - 1

b = 4x2 = 8

Q.6

[MCQ]

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;
}
```

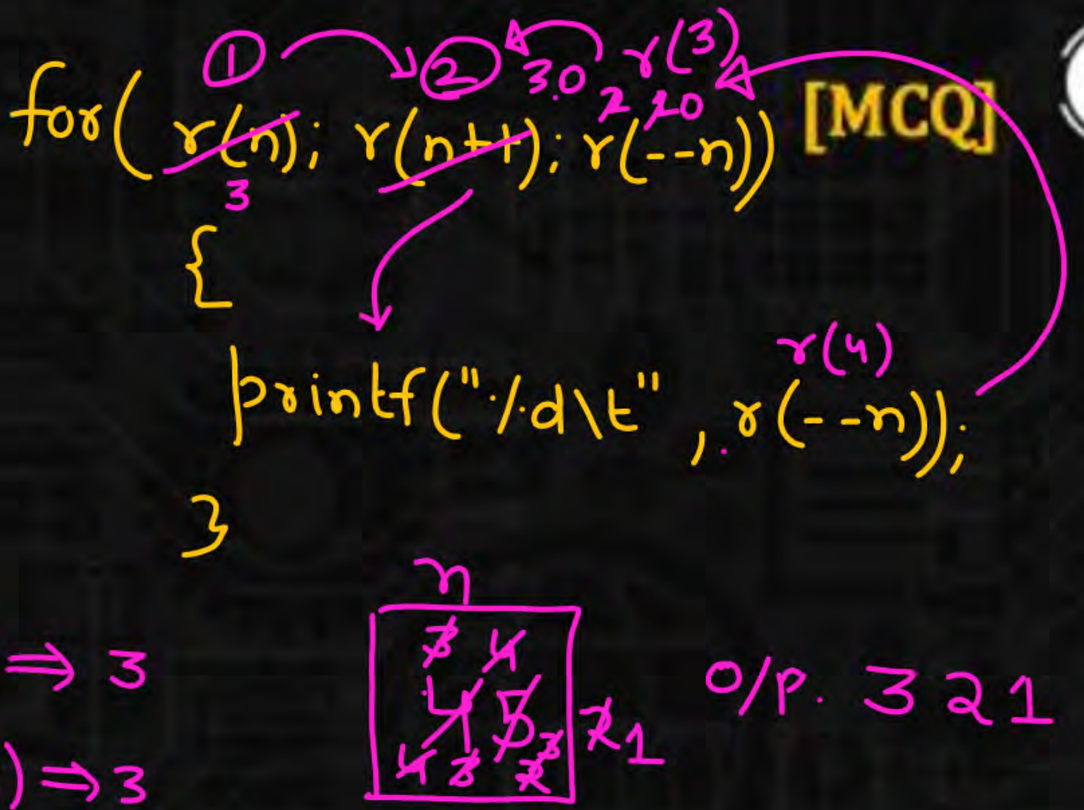
The output is-

A. 123

B. 1234

C. 321

D. 4321




THANK YOU GW
SOLDIERS !