CS & IT ENGINEERING



Functions and Storage Classes
DPP 02 Discussion



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Pw

[MCQ]

#include <stdio.h>

int main(){

(int)
$$a=2$$
, i; 260%
static int $b=(a++;)$

for(i=0;i<a+b;i++)

printf("GATE Wallah");

return 0;

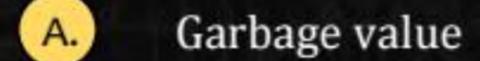
Which of the following is/are CORRECT?

- A. GATE Wallah is printed 3 times.
- B. GATE Wallah is printed 4 times.
- C. GATE Wallah is printed 5 times.
- Compilation Error.

```
ude<stdio.h> [MCC
```



```
#include<stdio.h>
void main(){
  extern int a;
 extern int a;
 printf("%d", a}; > 15
int a = 15;
The output is-
```



B. Compilation error

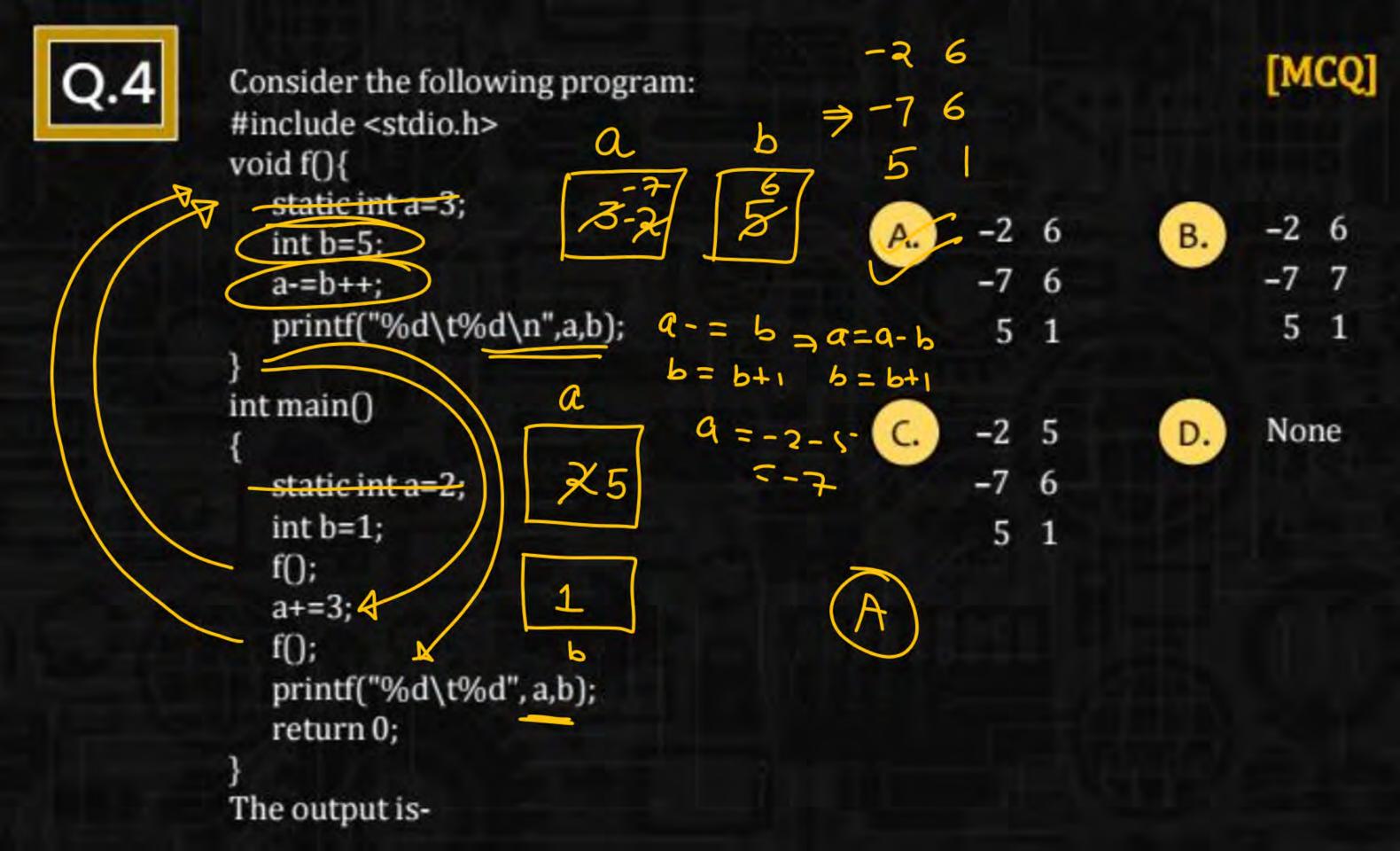
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15

D.

No output

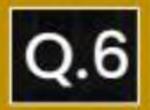
```
#include<stdio.h>
                               -RATEL 23 for (
       int func(int a, int b){
        static int p=9, q=21;
         if(a>b){
                                                         printf ("/d/t", func (i,j):
          a=a-p++;
b=b+0/;
                                       11 1--5
          b=b+q--;
                                                   func (2,-2)
Q1=9-1;
          return a+b;
                                       3 /=-1
                                                   func (2,-1)
         }else{
                                                   func (2,0)
                                       3) j=0
          return p-q;
                                                  func (2,1)
                                                  func (2,2)
       int main(){
                          a = a - P++
        int i=2, j=-2;
                              a = a - p
        for(;j<3;j++)
        printf("%d\t",func(i,j));
         return 0;
                                Q = 9-1
       The sum of the values printed is
```



[NAT]



$$a + f() + f() + i$$
 $66 + 2 + 3 + 1$
 (72)



Consider the following program:

```
#include <stdio.h>
static int j;
static int j=3;
int f(){
  auto int i=2;
  return i+++--j;
int main()
                                 a
  char a='B';
                                  66
  printf("%d",a+f()+f());
  return 0;
```

The output is-

[MCQ]

A. 68

B. 72

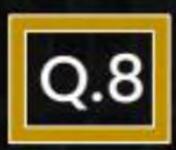
73

D. Compilation error

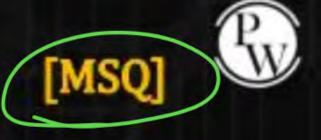
```
Q.7
```

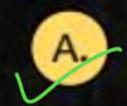
```
Pf AV/
Consider the following program:
#include <stdio.h>
int f(){
  return i --; > return i
               then dec.
int main()
  for(f();f();printf("GATE Wallah"))
  printf("Pankaj Sharma");
  return 0;
The number of times printf() is executed is _
```



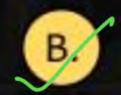


Which of the following statement(s) is/are CORRECT?





A static variable has internal linkage.

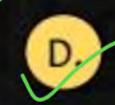


Static variables are stored in the data segment.



Auto variables are stored in the heap segment.





Register variables behave as auto variables by default.

