

# CS & IT ENGINEERING

## C-Programming

### String and Structure



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DPP 01 Discussion Notes

#Q. Consider the following codes P and Q as:

P : char\* p = "GATEWallah";

p[5] = 'A';  
printf("%s",p);

Read only memory

Q: char\* p = "GATEWallah";

char\* q = p;

q[5] = 'A';

printf("%s",q);

The number of INCORRECT codes is/are 2.

# [MCQ]



#Q. P : char s1[]="GATE";  
char s2[]="GATE";  
if(s1==s2) printf("YES");  
else  
printf("NO");

No

Q : char s1[]="GATE";  
char s2[]="GateWallah";  
if(\*s1==\*s2) printf("YES");  
else  
printf("NO");

No Yes

The outputs are-

A

P = YES Q = YES

B

P = YES Q = NO

C

P = NO Q = YES

D

P = NO Q = NO

# [MCQ]



#Q. P :      char s[20];  
              printf("Enter your GATE stream with year: \n");  
              scanf("%s",s);                  CS 2023      CS  
              printf("%s",s);

Q :      char s[20];  
              printf("Enter your GATE stream with year: \n");  
              gets(s);      all the characters till you get New Line  
              printf("%s",s);

If the input string is “CS 2023”, the outputs are-

A

P=CS 2023    Q = CS 2023

C

P=CS 2023    Q = CS

B

P=CS

Q = CS

D

P = CS

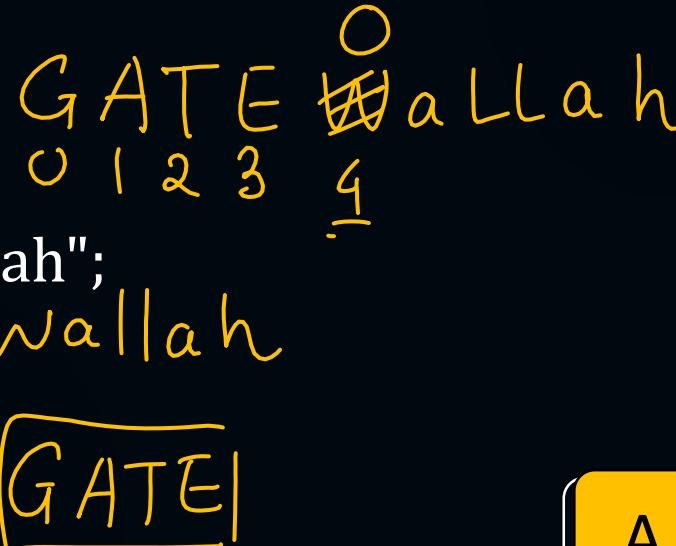
Q = CS 2023

# [MCQ]



```
#Q. #include<stdio.h>
#include<string.h>
int main()
{
    char s[20]="GATEWallah";
    printf("%s",s+4);
    s[4]=0;
    printf("%s",s);
    return 0;
}
```

The output is-



A

WallahGATE ✓

B

EWallahGAT

C

WallahGATE0allah

D

EWallahGAT0allah

# [MCQ]



```
#Q. #include<stdio.h>
#include<string.h>
int main()
{
    char s[20]=GATEWallah2023;
    s[10]='0';
    printf("%s",s+s[3]-s[1]);
    return 0;
}
```

The output printed is-

0 + 69 - 65

(4)

65 A

66 B

67 C

68 - D

69 - E



Wallah0



Wallah2023



Wallah0023



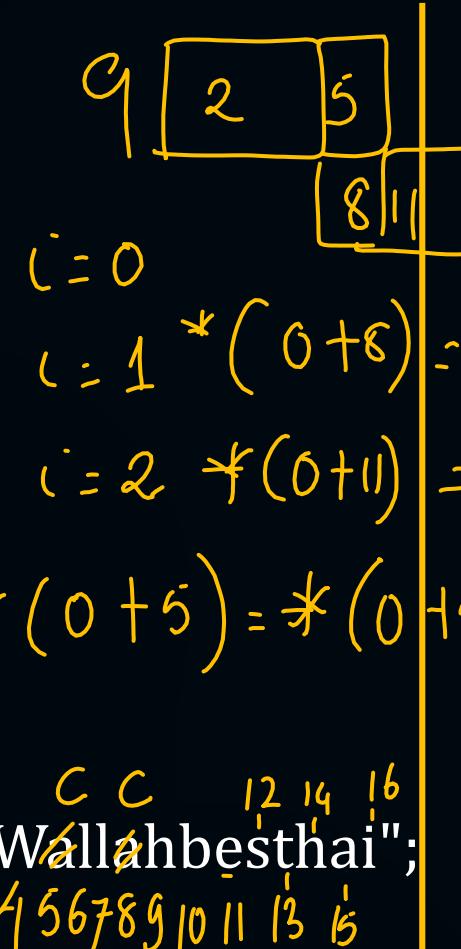
Wallah

# [MCQ]



```
#Q. #include<stdio.h>
     #include<string.h>
     void f(char *p)
     {
         static int q=2;
         q=q+3;
         p[q]+=2;
     }
     int main()
     {
         char s[20]="GATEWallahbesthai";  

         int i=0;
         for(i=0;i<3;i++){
             f(s);
         }
     }
```



```
printf("%s",s);
return 0;
}
```

The output string printed is-

A

GATEWcllchbgsthai ✓

B

GATEWcllbhbgbsthai

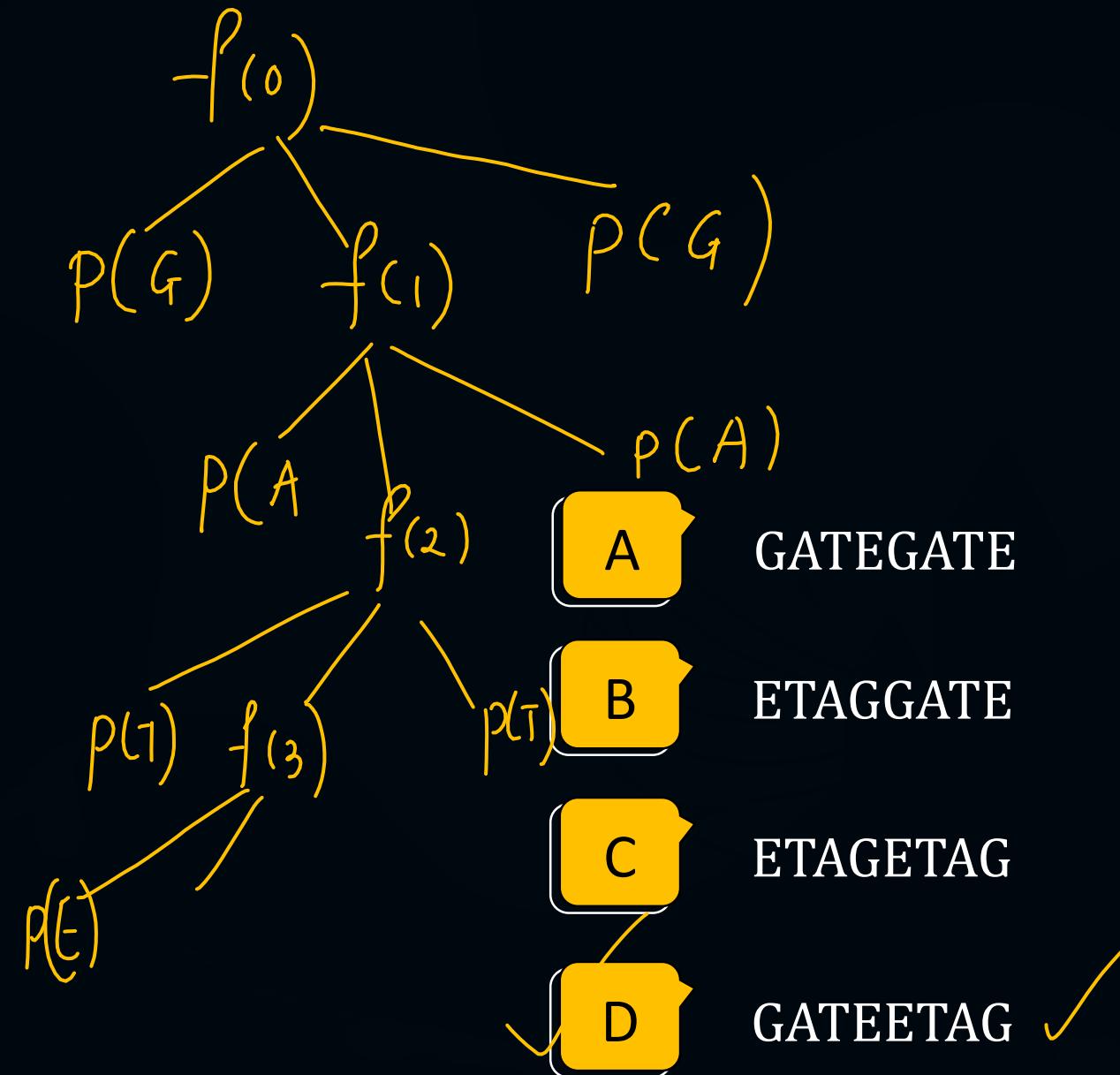
C

GATEWcllchbesthai

D

GATEWcllchbesthai

```
#Q. #include<stdio.h>
     #include<string.h>
void f(char *p){
    if(*p!=0){
        printf("%c", *p);
        f(p+1);
    }
    printf("%c", *p);
}
int main()
{
    char s[5]=O'23"GATE";
    f(s);
    return 0;
}
The output is-
```



```
#Q. #include<stdio.h>
     #include<string.h>
     int main()
     {
         int a=1;
         char b[]="GATE2024";
         char c[]="GATE2024";
         int d=strcmp(b,c);
         if(d==0) ✓
         a=printf("GATEWallah");
         printf("%d",a);
         return 0;
     }
```

The value of a is 10.

strcmp - value return is zero  
if string is same

a : 10



THANK - YOU