CS & IT ENGINEERING

Programming in C

String in C Programming

Strings-1

DPP 01 Discussion Notes

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01 Question

02 Discussion

Q.1

[NAT]

Consider the following codes P and Q as:

P : char* p ="GATEWallah";

→ Read only Memory

p[5]= 'A';

printf("%s",p);

Q: char* p ="GATEWallah";

char* q = p;

q[5]= 'A';

printf("%s",q);

The number of INCORRECT codes is/are 2.

Q.2

[MCQ]

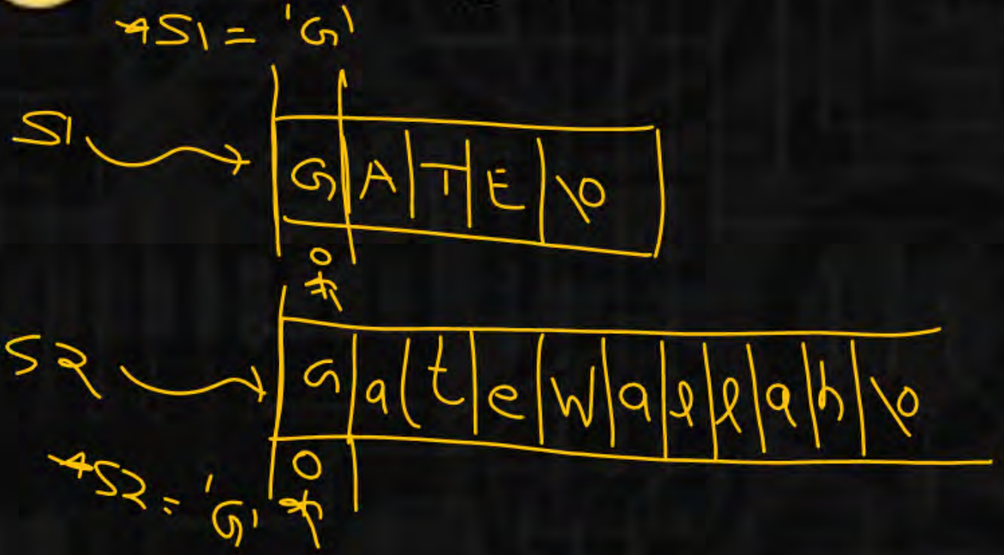
```
P : char s1[ ]="GATE";
    char s2[ ]="GATE";
    if(s1==s2) printf("YES");
    else
    printf("NO");
Q : char s1[ ]="GATE";
    char s2[ ]="GateWallah";
    if(*s1==*s2) printf("YES");
    else
    printf("NO");
The outputs are-
```

A. P = YES Q = YES

B. P = YES Q = NO

C. P = NO Q = YES

D. P = NO Q = NO



Q.3

[MCQ]

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

If the input string is "CS 2023", the outputs are-

A. P=CS 2023 Q = CS 2023

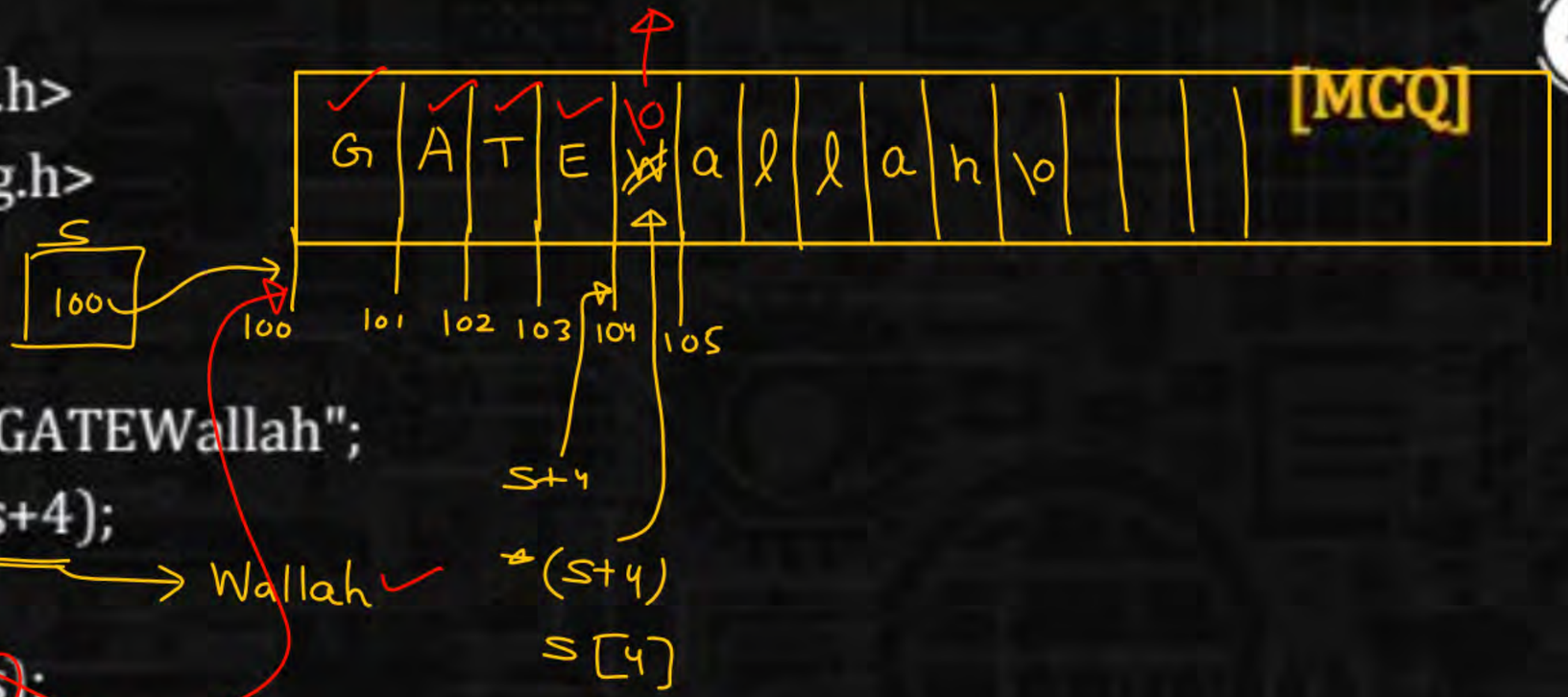
B. P=CS 2023 Q = CS

C. P=CS Q = CS

D. P = CS Q = CS 2023

Q.4

```
#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

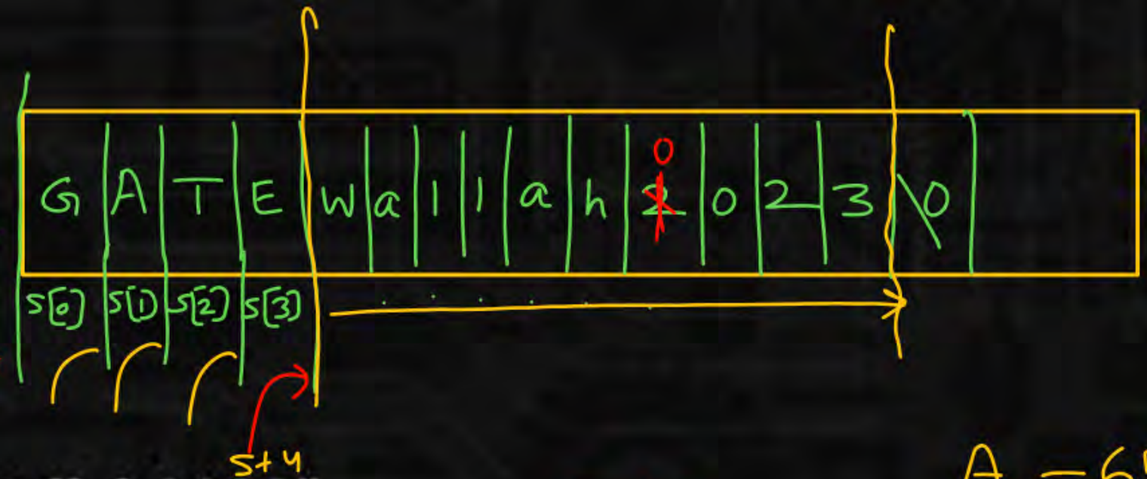
D. EWallahGAT0allah

Q.5

[MCQ]

```
#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-



s+4

'0' '\0'

s+4

s+'E'-'A'

Add

s+69-65

s+4

(C)

A - 65 x

B - 66 x+1

C - 67 x+2

D - 68 x+3

E - 69 x+4

A. Wallah0

B. Wallah2023

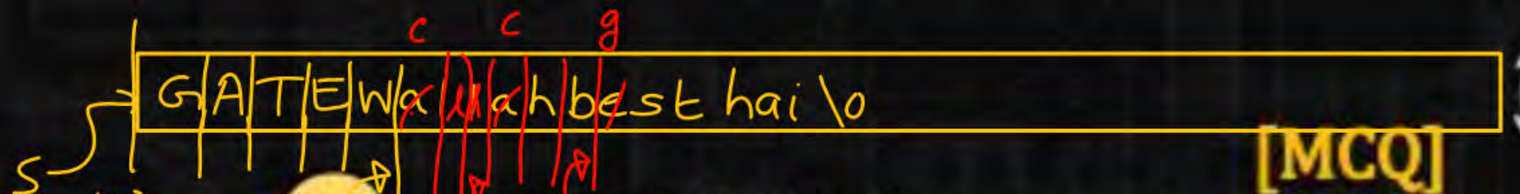
C. Wallah0023

D. Wallah

Q.6

```
#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-



[MCQ]

A. GATEWcllchbgsthai

B. GATEWcllbhbgsthai

C. GATEWcllchbesthai

D. GATEWcllchbesthai

(A)

q 2 5 8 11

P[11] = P[11] + 2

① i = 0
f(100)
P => 100
P[q] = P[q] + 2
*(P+5) = P[5] + 2
*(P+5) = *(P+5) + 2
= 'a' + 2 =

'a' — x
'b' — x+1
'c' — x+2

*(P+5) = x+2

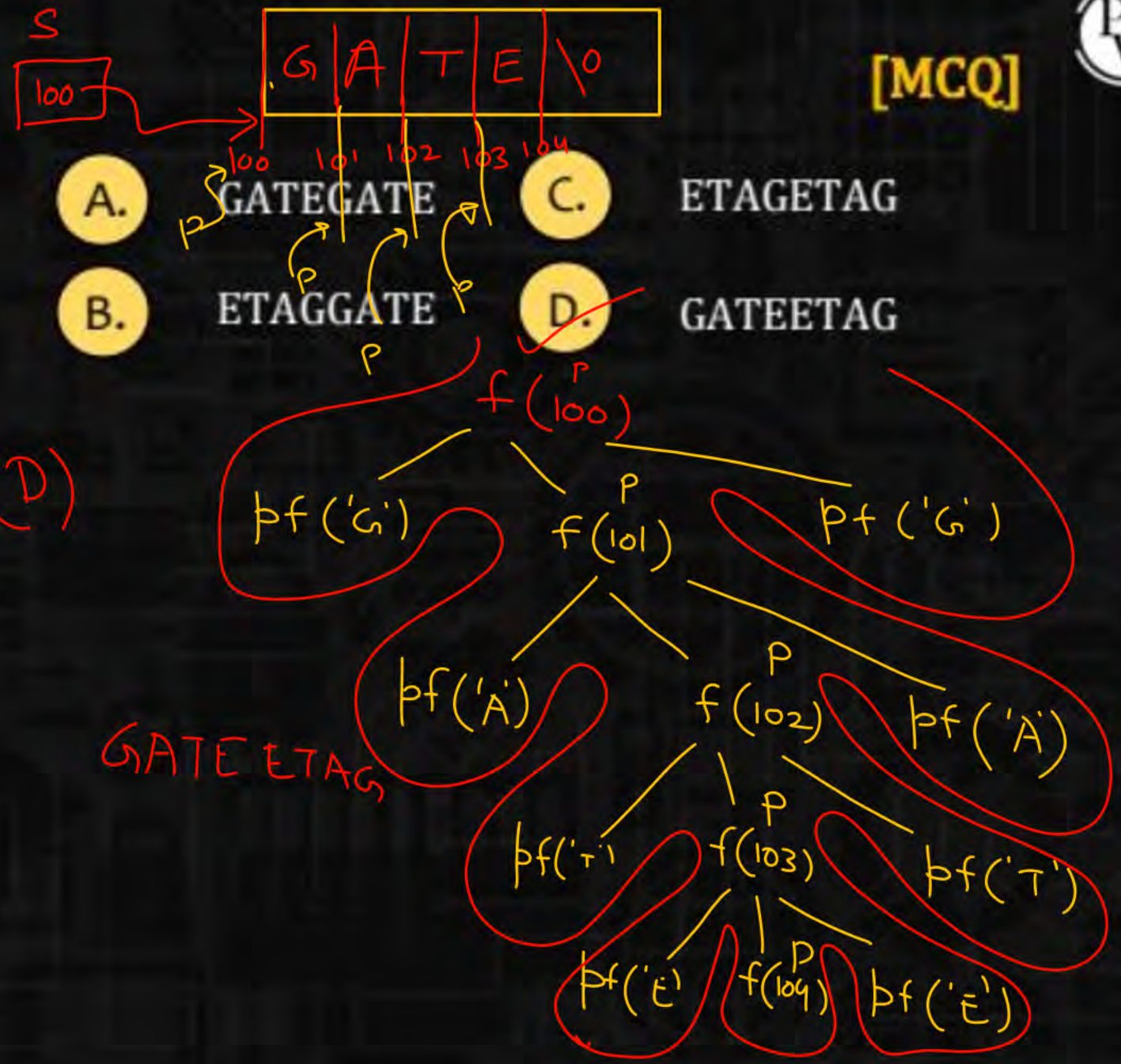
(ii) i=1
f(100) P = 100
P[8] = P[8] + 2

(iii) i = 2 f(100) P = 100

Q.7

[MCQ]

```
#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]="GATE";
    f(s);
    return 0;
}
The output is-
```



Q.8

[NAT]

```
#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 _____.


THANK YOU GW
SOLDIERS !