

1.

What will be the output of the following code:

```
int main()
{
    char *c = malloc(sizeof(char)*6);
    strcpy(c,"CProg");
    *(c+1) = '\0';
    printf("%u\n",strlen(c));
    free(c);
    return 0;
}
```

- A. 6
- B. 4
- C. 1
- D. 0

Answer: C

2.

Following code will cause to:

```
int main()
{
    char *c = malloc(sizeof(char)*6);
    strcpy(c,"CProg");
    c = malloc(sizeof(char) * 15);
    strcpy(c,"CProgramming");
    free(c);
    return 0;
}
```

- A. C as Dangling Pointer
- B. Memory Leakage
- C. C as Wild Pointer
- D. C as Null Pointer

Answer: B

3.

Find the output of the following code:

```
#include<stdio.h>
int main()
{
    int *ptr=NULL;
    ptr = (int *)calloc(4,sizeof(char));
    *(((char *)ptr) + 0) = 'A';
    *(((char *)ptr) + 1) = 'B';
    *(((char *)ptr) + 2) = 'C';
    printf("%u",strlen(ptr));
    free(ptr);
    return 0;
}
```

- A. Compile Time Error
- B. RunTime Error
- C. 3
- D. None of these

Answer: C

4.

What will be the output of following code:

```
#include<stdio.h>
#define STR(a) #a
int main()
{
    int arr[2][2][2] = { { {1,2},{3,4}}, { {5,6},{7,8}} }, r=1,c=0;
    printf(STR(arr[1][1][0]=%d),*(*(arr+r)+r)+c));
    return 0;
}
```

- A. 7
- B. 6
- C. 8
- D. Compile Time Error

Answer: A

5.

Find the output of the following code:

```
#include<stdlib.h>
#define MERGE(x,y) x < y ? x##y(0) : y ;
int main()
{
    int ex=2,it=3,a;
    MERGE(ex,it)
    printf("%d\n",a);

    return 0;
}
```

- A. 3
- B. 2
- C. No Output
- D. Compile Time Error

Answer: C