```
x = 1 + 1;
printf("%d", x);
                      (A) 2 (B) 3.1415926 (C) Hello world! (D) segmentation fault
                     2. On a CSE machine, what is the size of this object: array?
struct node {
  int v;
  struct node *next;
                      (A) 8 bytes (B) 12 bytes (C) 16 bytes (D) 24 bytes
};
struct node array[2];
                     3. Which of the following is true?
typedef struct node {
  char *s;
  node *next;
                     (A) p->next is of type *char (B) p->next->s is of type char
} NodeT;
                      (C) p->next->s[0] is of type *char (D) p->next->s[0] is of type char
NodeT *p;
                     4. What is the output of the following code?
int a[2] = \{1, 0\};
int b[2][2] = \{\{1, 2\}, \{3, 4\}\};
printf("%d", b[1][a[1]]);
                       (A) 1 (B) 2 (C) 3
                                                         (D) 4
```

1. What is the output of the following code?

int x;

```
#include <stdio.h>
char *f(char *);
int main(void) {
   char *str = "abc";
   printf("sc", *f(str));
   return 0;
}
char *f(char *p) {
   return p++;
}
```

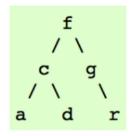
5. What is the output of the following program?

```
(A) a (B) b (C) bc (D) segmentation fault
```

```
#include <stdio.h>
char *f(char *);
int main(void) {
   char *str = "abc";
   printf("%c", *f(str));
   return 0;
}
char *f(char *p) {
   return p++;
}
```

6. str is an object that is located in which memory region?

```
(A) code (B) global data (C) stack (D) heap
```



7. Traverse the following tree in **postorder**

```
(A) acdgrf (B) adcgrf (C) adcrgf (D) adrcgf
```

```
r = random()%2 + 2;
for (i=0; i<r; i++) {
    printf("%d ", (int)random()%2);
}</pre>
```

8. What is a **possible** output of the following code?

```
(A) 1 2 (B) 1 0 0 (C) 0 1 2 (D) 1 1 1 1
```