

CSE 4107: Structure Programming I Quiz #1

Time: 25 min

1. How many types of C tokens are there?

Marks: 2

2. What is the output of the following C code snippet for n=3 and n=4?

Marks: 6

```
int main()
{
    int n, i, j;
    scanf("%d", &n);
    for(i=0; i<n; i++)
    {
        for(j=0; j<2*n-1; j++)
        {
            if(j<n)
            {
                if(j<n-i-1)    printf("#");
                else            printf(" ");
            }
            else
            {
                if(j<=i+n-1)    printf("#");
            }
        }
        printf("\n");
    }
    return 0;
}
```

3. Write a C program which prints the following pattern on the screen. Marks: 7

For n=3

```
#####  
  ###  
   #
```

For n=4

```
#####  
  #####  
   ###  
    #
```