

```
# 1A. use a for loop to print a square of size n = 5
```

```
n = 5
for i in range(n):
    for j in range(n):
        print("*",end=" ")
    print()
```

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

```
# 1B. use a for loop to print a triangle of size n = 9
```

```
n = 10
for i in range(n):
    for j in range(i):
        print("*",end=" ")
    print()
```



```
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * *
* * * * * * *
* * * * * * * *
```

```
# 1C. use a for loop to print a checkerboard of size n = 8 with white and
```

```
n = 8
for i in range(n):
    for j in range(n):
        if (i + j) % 2 == 0:
            print(" ",end=" ")
        else:
            print("*", end=" ")
    print()
```

```
*   *   *   *
*   *   *   *
*   *   *   *
*   *   *   *
*   *   *   *
```

```

*   *   *   *
 *   *   *   *   *
*   *   *   *

```

2A. use a while loop to print a square of size n = 5

```

i = 0
n = 5
while i < n:
    j = 0
    while j < n:
        print("X",end=" ")
        j = j + 1
    i = i + 1
    print()

```

```

X X X X X
X X X X X
X X X X X
X X X X X
X X X X X

```

2B. use a while loop to print a triangle of size n = 9

```

i = 0
n = 10
while i < n:
    j = 0
    while j < i:
        print("X", end=" ")
        j = j + 1
    i = i + 1
    print()

```

```

X
X X
X X X
X X X X
X X X X X
X X X X X X
X X X X X X X
X X X X X X X X
X X X X X X X X X

```

2C. use a while loop to print a checkerboard of size n = 8 with white an

```

i = 0
n = 8
while i <= n:
    j = 0
    while i <= n:

```


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|
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* - - - - - *