

Assignment Week 3

[All questions need to be solved using both for and while loop]

1. Write code for the following sequence by taking line number as user input:

n = 5

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

n=3

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

2. Write code for the following sequence by taking line number as user input.

n = 3

```
1  
121  
12321
```

n = 4

```
1  
121  
12321  
1234321
```

3. Write code for the following sequence by taking line number as user input

n = 3

```
1  
121  
1
```

n = 5

```
1  
121  
12321  
121  
1
```

4. Write code for the following sequence by taking line number as user input, [using a single loop only]

n = 5

```
1
21
321
21
1
```

5. Write a function that takes line number as input (with default value of 5) and prints the following pattern.

n=3

```
.....
.. ..
. .
.. ..
.....
```

n = 5

```
.....
... ..
.. ..
. .
.. ..
... ..
.....
```