1. Write a python program that prints the following pattern given an odd number.

Example: n=5.

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- 2. Make a Double Ended Queue class with the following functionalities. Add codes to test the functionalities too.
- A) PUSH FRONT: Insert an element at the beginning of the queue.
- B) PUSH BACK: Insert an element at the end of the queue.
- C) POP FRONT: Remove the first element.
- D) POP BACK: Remove the last element.
- E) FRONT: Return/print the first element.
- F) BACK: Return/print the last element.

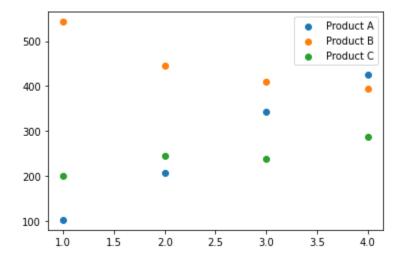
## Example:

Input.txt	Actions by your program:
B 10	Inserts 10
A 21	Inserts 21 at front
B 13	Inserts 13 at back
F	Prints 13
С	Removes 21 from front
Е	Prints 10

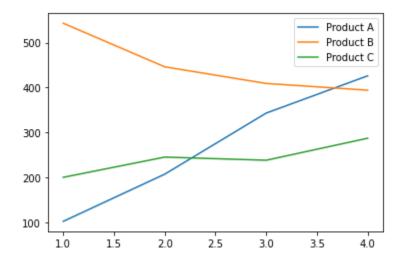
3. Given sales data in csv format (SalesData.csv), output scatter plot and line plots as shown below.

Day	Product A	Product B	Product C
1	102	543	200
2	207	446	245
3	343	409	238
4	426	394	287

## Scatter Plot:



## Line Plot:



## Instructions:

- 1. Code each problem in separate python files. (problem1.py, problem2.p etc.)
- 2. Create a folder. Rename it with your student ID.
- 3. Put all your python files into the folder.
- 4. ZIP the folder and upload to LMS submission window.
- 5. Deadline: Wednesday 11:55 PM.
- 6. Do not copy! Copy checker will be used during evaluation. Negative marking is possible.