Segment 1:

Answer: $O(n^2)$

Constant operations:

- Assign n to user input
- Assign r to 20
- Assign dummy to 0

Operations:

- **First For Loop:**
- Assign i = 0
- Compare i to n
- Continue if i < n
- Increment dummy by 1
- **Second For Loop:**
    - Assign j = 0
    - Compare j to n
    - Continue if j < n
    - R + dummy
    - Increment j by 1
- Increment i by 1

First loop = 5n

Second loop = 5n

$5n * 5n = 25n^2$

Remove constant = $O(n^2)$

Segment 2:

Answer: O(n)

Constant operations:

- Assign m to user input

Operations:

- **First For Loop:**
- Assign j to 1
- Compare j to m
- Continue if j <= m
- Increment j by 1
- **First While Loop:**
- Compare m to 0
- Continue if m > 0
- Decrement m by 1

First loop = 4n

Second loop = 3n

4n + 3n = 7n

Remove constant and apply big O = O(n)