Theoretical Analysis example

Public int m (int [] arr){ 0

Int sum = 0; 1 – 1 Instruction

For(int I = 0; I < arr.length; i++){ 2 - ?

Sum += arr[i] 3 - ?

}return sum; 4 – 1 instruction

} 5

4 + 3n = T(n)

O(n) = O(n) Linear time

Once repeating

Int I = 0 I<arr.length

I = arr.length sum += arrr[i]

I++

2 + 3 \* n