

Design and Analysis of Algorithm

Tutorial 02

Analyze the running time of the following program fragments, finding **Operation Count & Step count**.

1	$j \leftarrow 1$ while $j \leq 10$ $j \leftarrow j+1$ for $i \leftarrow 0$ to n $a \leftarrow a+1$
2	$a \leftarrow 10$ for $i \leftarrow 0$ to n for $j \leftarrow 1$ to 10 $a \leftarrow a+1$
3	$sum \leftarrow 0$ for $i \leftarrow n$ down to 0 $sum = sum + 1$
4	$i \leftarrow 1$ While $i \leq n$ $sum = sum + 1$ $i \leftarrow i+1$