Project 1

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# Problem Statement

We are required to analyze the following program/code sample.

int j = 2

while (j < n) {

int k = j

while (k < n) {

Sum += a[k]\*b[k]

k += n1/3 log n

}

j = j\*sqrt(5)

}

# Theoretical Analysis

Explain your theoretical estimate in 3-4 sentences.

*Reasoning*

*Mathematical expressions.*

*Summations, etc*

# Experimental Analysis

## Program Listing

(Feel free to include only selected portions if you like. For example, I would like to know which values of “n” you ran the program for.)

## Data Normalization Notes

Do you normalize the values by some constant? How did you derive that constant?

## Output Numerical Data

|  |  |  |
| --- | --- | --- |
| N | Experimental | Theoretical |
|  |  |  |
|  |  |  |
|  |  |  |

## Graph

## Graph Observations

# Conclusions