

Project 1

Author Name

1 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)
}
```

2 Theoretical Analysis

Explain your theoretical estimate in 3-4 sentences.

Reasoning

Mathematical expressions.

Summations, etc

3 Experimental Analysis

3.1 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.)

3.2 Data Normalization Notes

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

3.3 Output Numerical Data

n	Experimental	Theoretical
<i>Remember, you have to choose the RIGHT values of n for the charts to be meaningful.</i>		

3.4 Graph

3.5 Graph Observations

4 Conclusions