

Assignment 1

Programming Languages

1. [30 pts] Research and name one person who was responsible for the development of the imperative programming model. Name another as a major contributor to the functional model. Finally, name a person who had a great effort with the development of the logic model of programming?

Describe each person's contribution in a paragraph.

2. [30 pts] Describe some design tradeoffs between efficiency and safety or reliability in any programming language you know.
3. [10 pts] On a Windows or Linux machine compile the following program and report its (a.) source file size (b.) object file size and (c.) executable file size, for the C language:

```
#include <stdio.h>
int main() {
    printf("Hello World");
    return 0;
}
```

Hint: Use Microsoft Visual C++ Community edition on a Windows machine or Gnu C Compiler on a Linux machine.

4. [30 pts] What are the arguments both for and against the idea of a typeless language?

