Assignment2 JIASHU LIAO

1. Introduction

The program is used to calculate binary, octal, decimal and hexadecimal numbers by (+, -, *). And these different system can be transformed by each other by the input.

2. Design and Implementation

To do the calculation, firstly change input data into decimal. Then I calculate it by using +, - and *. Finally, I change the result into the system needed (binary, octal, decimal, hexadecimal).

3. Big O

Best Case: inputs are decimal, output is decimal O(n)

Worst Case: inputs are hexadecimal and octal, output is binary