

```
1  #include <stdio.h>
2  #include <string.h>
3  #include <stdlib.h>
4
5  int main()
6  {
7      char string[50];
8      char* pString = NULL;
9      char arithmeticOp = 0;
10     char* pArithmeticOp = NULL;
11     char operator = 0;
12     char* numberOne = NULL;
13     char* numberTwo = NULL;
14     float num1;
15     float num2;
16
17     fgets(string, 20, stdin);
18     pString = string;
19     for (operator=42; operator < 46; operator++){
20         if(operator!=44){
21             pArithmeticOp = strchr(pString, operator);
22             if (pArithmeticOp != NULL){
23                 break;
24             }
25         }
26     }
27     printf("The function is: %c\n", operator);
28     numberOne = strtok(pString, " +-*/");
29     printf("number one: %s\n", numberOne);
30     numberTwo = strtok(pString-numberOne, " +-*/");
31     printf("number 2: %s", numberTwo);
32     num1 = atof(numberOne);
33     num2 = atof(numberTwo);
34
35     switch(operator)
36     {
37         case '+':
38             printf("The result is %.2f\n", num1+num2);
39             break;
40         case '-':
41             printf("The result is %.2f\n", num1-num2);
42             break;
```