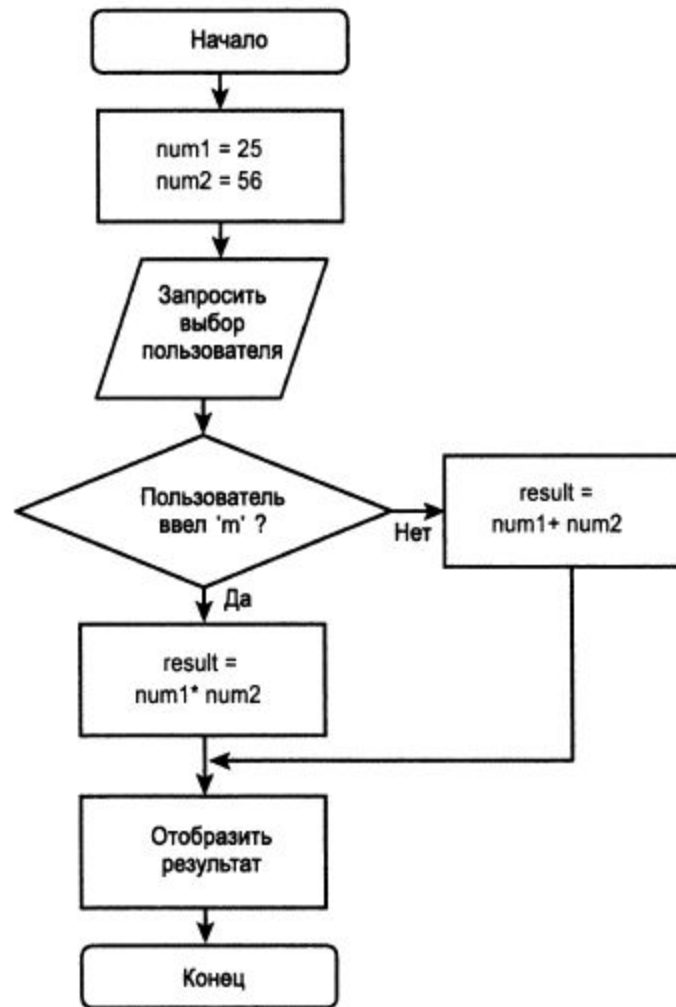


**Задача:** Программа должна умножить два числа, если пользователь ввел *m*, или суммировать их в противном случае



```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      cout << "Enter two integers: " << endl;
7      int num1 = 0, num2 = 0;
8      cin >> num1;
9      cin >> num2;
10
11     cout << "Enter 'm' to multiply, anything else to add: ";
12     char userSelection = '\0';
13     cin >> userSelection;
14
15     int result = 0;
16     if (userSelection == 'm')
17         result = num1 * num2;
18     else
19         result = num1 + num2;
20
21     cout << "result is: " << result << endl;
22
23     return 0;
24 }
```

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```
Enter two integers:
```

```
34 56
```

```
Enter 'm' to multiply, anything else to add: m
```

```
result is: 1904
```

Консоль отладки Microsoft Visual Studio

```
Enter two integers:
```

```
34 56
```

```
Enter 'm' to multiply, anything else to add: k
```

```
result is: 90
```

## Проверка емкости перед копированием строки в символьный массив

```
1  #include <iostream>
2  #include <string>
3  #include <string.h>
4
5  using namespace std;
6
7  int main()
8  {
9      cout << "Enter a line of text: " << endl;
10     string userInput;
11     getline (cin, userInput);
12
13     char copyInput[20] = { '\0' };
14     if (userInput.length() < 20) // check bounds
15     {
16         strcpy(copyInput, userInput.c_str());
17         cout << "copyInput contains: " << copyInput << endl;
18     }
19     else
20         cout << "Bounds exceeded: won't copy!" << endl;
21
22     return 0;
23 }
```

## Результат

Введите строку текста:

**Короткая строка**

соруInput содержит: Короткая строка

Следующий запуск:

Введите строку текста:

**Длинная строка, не помещающаяся в массив**

Превышение размера строки!

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      cout << "Enter two numbers: " << endl;
7      float num1 = 0, num2 = 0;
8      cin >> num1;
9      cin >> num2;
10
11     cout << "Enter 'd' to divide, anything else to multiply: ";
12     char userSelection = '\0';
13     cin >> userSelection;
14
15     if (userSelection == 'd')
16     {
17         cout << "You wish to divide!" << endl;
18         if (num2 != 0)
19             cout << num1 << " / " << num2 << " = " << num1 / num2 << endl;
20         else
21             cout << "Division by zero is not allowed" << endl;
22     }
23     else
24     {
25         cout << "You wish to multiply!" << endl;
26         cout << num1 << " x " << num2 << " = " << num1 * num2 << endl;
27     }
28
29     return 0;
30 }
```

```
Enter two numbers:  
45 9  
Enter 'd' to divide, anything else to multiply: d  
You wish to divide?  
45 / 9 = 5
```

 Консоль отладки Microsoft Visual Studio


```
Enter two numbers:  
45 9  
Enter 'd' to divide, anything else to multiply: a  
You wish to multiply?  
45 x 9 = 405
```

 Консоль отладки Microsoft Visual Studio

```
Enter two numbers:  
346  
0  
Enter 'd' to divide, anything else to multiply: d  
You wish to divide?  
Division by zero is not allowed
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     enum DaysOfWeek
7     {
8         Sunday = 0,
9         Monday,
10        Tuesday,
11        Wednesday,
12        Thursday,
13        Friday,
14        Saturday
15    };
16
17    cout << "Find what days of the week are named after!" << endl;
18    cout << "Enter a number for a day (Sunday = 0): ";
19
20    int dayInput = Sunday; // Initialize to Sunday
21    cin >> dayInput;
22
23    if (dayInput == Sunday)
24        cout << "Sunday was named after the Sun" << endl;
25    else if (dayInput == Monday)
26        cout << "Monday was named after the Moon" << endl;
27    else if (dayInput == Tuesday)
28        cout << "Tuesday was named after Mars" << endl;
29    else if (dayInput == Wednesday)
30        cout << "Wednesday was named after Mercury" << endl;
31    else if (dayInput == Thursday)
32        cout << "Thursday was named after Jupiter" << endl;
33    else if (dayInput == Friday)
34        cout << "Friday was named after Venus" << endl;
35    else if (dayInput == Saturday)
36        cout << "Saturday was named after Saturn" << endl;
37    else
38        cout << "Wrong input, execute again" << endl;
39
40    return 0;
41 }
```



 Консоль отладки Microsoft Visual Studio

```
Find what days of the week are named after?  
Enter a number for a day (Sunday = 0): 4  
Thursday was named after Jupiter
```

1. По введённому пользователем возрасту двух мальчиков определить кто старше.
2. Напишите программу, которая выбирает максимальное и минимальное из пяти введённых чисел.
3. Предположим, что ООО «Рога и Копыта» набирает сотрудников, возраст которых от 25 до 40 лет включительно. Нужно написать программу, которая запрашивает возраст претендента и выдает ответ: «подходит» он или «не подходит» по этому признаку.