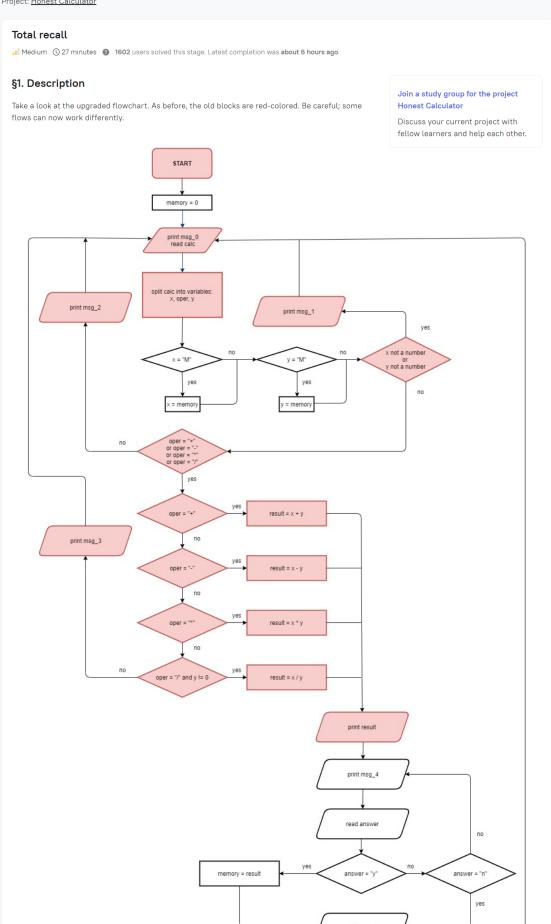
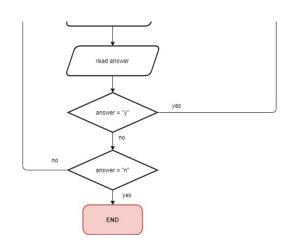
## Work on project. Stage 3/5: Total recall

Project: Honest Calculator





## §2. Objectives

To complete this stage, you need to implement the flowchart above. While doing it, please, follow our recommendations below:

- Don't use the built-in functions to calculate from a string;
- The memory variable must be of a float type; use this variable to store intermediate result;
- There are no tests when M is negative. For example, there will be no test input like this: -M + 6;
- Copy two messages. The tests will check if the correct message appears in the correct order. Don't add extra lines or characters.

```
msg_4 = "Do you want to store the result? <math>(y / n):"

msg_5 = "Do you want to continue calculations? <math>(y / n):"
```

## §3. Example

The greater-than symbol followed by a space ( > ) represents the user input. Note that it's not part of the input.

## Example 1:

```
Enter an equation
> 3 + 3
6
Do you want to store the result? (y / n):
>y
Do you want to continue calculations? (y / n):
>y
Enter an equation
> 5 + M
11
Do you want to store the result? (y / n):
>y
Do you want to continue calculations? (y / n):
>y
Do you want to continue calculations? (y / n):
>n
```

Report a typo

See hint

Code Editor

IDE 🧇 + 100

```
'''# write your code here
1
    def dosomething(x,y,oper):
6
            try:
               x=float(x)
8
               y=float(y)
9
            except ValueError:
10
               print(msg_1)
11
                return False
            if oper not in ['+','-','*','/']:
12
13
                print(msg_2)
14
                return False
15
            else: return True
16
17
    while True:
18
            print(msg_0)
19
            calc=input().split(" ")
20
21
            # print(calc,type(calc))
22
             x,oper,y=calc[0],calc[1],calc[2]
23
            if dosomething(x,y,oper):
24
                break
25
```

```
27
   28
        msg_0 = "Enter an equation"
   29
       msg_1 = "Do you even know what numbers are? Stay focused!"
   30
   31
       msg_2 = "Yes ... an interesting math operation. You've slept through all classes, haven't you?"
   32
   33
       msg_3='Yeah... division by zero. Smart move...'
   34
   35
       msg_4 = "Do you want to store the result? (y / n):"
   36
   37
        msg 5 = "Do you want to continue calculations? (y / n):"
   38
   39
   40
   41
        memory=0
<sub>v</sub> 42
        def mg5():
  43
         print(msg_5)
  44
          answer=input()
<sub>v</sub> 45
         if answer=='y':
   46
           mainfunction(True)
<sub>v</sub> 47
          elif answer=='n':
   48
           mainfunction(False)
  49
   50
v 51 def mg4(result):
   52
         global memory
   53
          print(msg_4)
          answer=input()
<sub>v</sub> 55
          if answer=='y':
   56
           memory=result
   57
           mg5()
<sub>v</sub> 58
          elif answer!='y':
<sub>v</sub> 59
           if answer=='n':
   60
              mg5()
<sub>v</sub> 61
           else:
             mg4(result)
   62
   63
<sub>v</sub> 64
       def mainfunction(flag):
   65
           global memory
            while flag:
   67
                    result=0
                    print(msg_0)
   68
                     calc=input().split(" ")
   69
   70
                     # print(calc,type(calc))
   71
                     x,oper,y=calc[0],calc[1],calc[2]
   72
<sub>v</sub> 73
                    if x=="M":
   74
                         x=memorv
                     elif y=="M":
  75
   76
                         y=memory
   77
<sub>v</sub> 78
   79
                       x=float(x)
                       y=float(y)
   80
<sub>v</sub> 81
                    except ValueError:
   82
                       print(msg_1)
   83
<sub>v</sub> 84
                     if oper not in ['+','-','*','/']:
                      print(msg_2)
<sub>v</sub> 86
                     else:
   87
                       if oper=='+':
<sub>v</sub> 88
   89
                         result=x+y
   90
                         print(x+y)
v 91
                       elif oper=='-':
   92
                        result=(x-y)
   93
                         print(x-y)
                       elif oper=='*':
<sub>v</sub> 94
                            result=(x*y)
   95
   96
                            print(x*y)
<sub>v</sub> 97
                       else:
v 98
                           try:
                               result=x/y
  99
 100
                                print(x/y)
v 101
                            except ZeroDivisionError:
 102
                              print(msg_3)
 103
 104
                     mg4(result)
 105
<sub>v</sub> 106
             else:
              if flag==False:
<sub>v</sub> 107
 108
                 exit()
 109
 110
        mainfunction(True)
 111
✓ Correct.
```

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