



WHAT THE HECK DOES THIS PROGRAM DO I'VE  
BEEN TRYING TO FIGURE IT OUT FOR SEVEN YEA

# Problem 1

What does this output if the input  
values are 50 and 10?

```
input H, R
B = 0
if H>48 then
    B = B + (H - 48) * 2 * R
    H = 48
end if
if H>40 then
    B = B + (H - 40) * (3/2) * R
    H = 40
end if
B = B + H * R
output B
```



WHY HAVE I BEEN CURSED TO TRACE CODE FOR  
THE REST OF ALL ETERNITY IF ANYONE IS OUT THERE

# Problem 2

What is the final value of NUM?

```
A = "BANANAS"  
NUM = 0: T = ""  
for J = len(A) - 1 to 0 step -1  
    T = T + A[J]  
next  
for J = 0 to len(A) - 1  
    if A[J] == T[J] then NUM = NUM + 1  
next
```





so it goes, i have accepted my fate, to trace  
code is the purpose of my life, one must imagine  
Sisyphus happy

# Problem 3

What is the final value of  $C[4]$ ?

```
A(0) = 12: A(1) = 41: A(2) = 52  
A(3) = 57: A(4) = 77: A(5) = -100  
B(0) = 17: B(1) = 34: B(2) = 81  
J = 0: K = 0: N = 0  
while A(J) > 0  
    while B(K) <= A(J)  
        C(N) = B(K)  
        N = N + 1  
        K = K + 1  
    end while  
    C(N) = A(J): N = N + 1: J = J + 1  
end while  
C(N) = B(K)
```



# Answers

1. 560
2. 5
3. 52