WHAT DO THIS PROGRAM DO???

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
```

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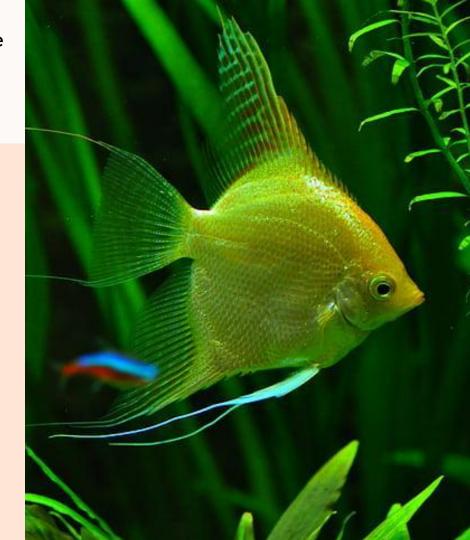
so it goes, i have accepted my fate, to trace code is the purpose of my life, one must imagine Sisyphus happy

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