



MY FIRST iOS APP

(PART 4) - Rounds & Score

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Tools



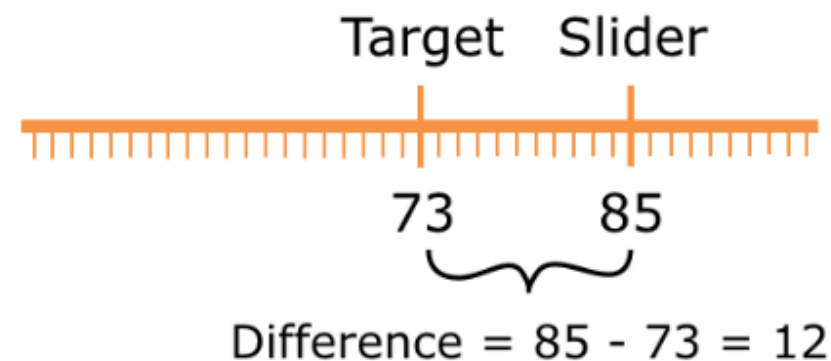
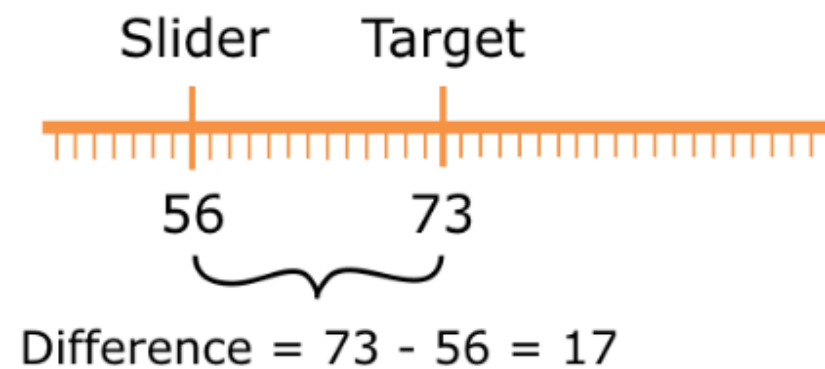
Technologies



Languages

HOW TO CALCULATE SCORE FOR EACH ROUND?

To calculate the score for each round, you look at how far off the slider's value is from the target:



Calculating the difference between the slider position and the target value

HOW TO CALCULATE SCORE FOR EACH ROUND?

- *If the slider's value is greater than the target value, then the difference is: slider value minus the target value.*
- *However, if the target value is greater than the slider value, then the difference is: target value minus the slider value.*
- *Otherwise, both values must be equal, and the difference is zero.*

```
var difference: Int
if currentValue > targetValue {
    difference = currentValue - targetValue
} else if targetValue > currentValue {
    difference = targetValue - currentValue
} else {
    difference = 0
}
```

The if construct is new. It allows your code to make decisions, and it works much like you would expect:

```
if something is true {
    then do this
} else if something else is true {
    then do that instead
} else {
    do something when neither of the above are true
}
```

HOW TO CALCULATE SCORE FOR EACH ROUND?

ANOTHER APPROACH

The new algorithm goes like this:

1. *Subtract the target value from the slider's value.*
2. *If the result is a negative number, then multiply it by -1 to make it a positive number.*

You should have arrived at something like this:

```
var difference = currentValue - targetValue
if difference < 0 {
    difference = difference * -1
}
```

This is a pretty straightforward translation of the new algorithm.

HOW TO CALCULATE SCORE FOR EACH ROUND?

THE SIMPLEST APPROACH

“Programs must be written for people to read”

— Gerald Jay Sussman and Hal Abelson, Authors of “Structure and Interpretation of Computer Programs”

```
let difference = abs(targetValue - currentValue)
```

ENOUGH TALK, LET'S JUMP TO `<CODE/>`





**YOU CAN FIND THIS iOS APP's SOURCE CODE,
LECTURE SLIDE AND MY FIRST iOS APP PART 4
INSTRUCTION GUIDE PDF in the description of
my YouTube Channel.**



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THANK YOU

