Graphical user interface, text

Description automatically generated with medium confidenceText

Description automatically generated with medium confidence

A screen shot of a computer

Description automatically generated with low confidence

B:

The if statement has two comparisons. A && “something”

Text, letter

Description automatically generatedAnd that something includes a comparison as well: \*p < a

Text, letter

Description automatically generated

Table

Description automatically generated

Text

Description automatically generatedI took the liberty of only returning at done, and inserting another goto statement.

B:

Because I only have one return statement.

Text

Description automatically generated with medium confidence

Text, table

Description automatically generated

Text

Description automatically generatedNot quite right….

Table

Description automatically generated  
  
Text, letter

Description automatically generatedx is put into rax  
x \* y in rax  
x is put into rdx  
x | y in rdx  
compare y and x  
if x greater or equal to y then rdx into rax  
  
Yellow marking: this is the same as !(x < y)

Text, table

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Array | Element size | Total size | Start address | Element i |
| P | 4 | 20 | Xp | Xp + 4i |
| Q | 2 | 4 | Xq | Xq 2 2i |
| R | 8 | 72 | Xr | Xr + 8i |
| S | 8 | 80 | Xs | Xs + 8i |
| T | 8 | 16 | Xt | Xt + 8i |

%rdx = 8 \* %rdi   
Table

Description automatically generatedTable

Description automatically generatedM = 7  
N = 5  
  
  
  
  
  
Table

Description automatically generated with medium confidence