This is CS50

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68% of CS50 students have never taken CS before
what ultimately matters in this course is not so much where you end up relative to your classmates but where you, in Week 10, end up relative to yourself in Week 0
input → [Blank Box] → output
representation
A
65
ASCII
H 72 1001000
I 73 1001001
! 33 100001
abstraction
H

72
1001000

I

73
1001001

!

33
100001
Unicode
RGB
input $\rightarrow$ output
algorithms
pseudocode
pick up phone book
open to middle of phone book
look at names
if Smith is among names
call Mike
else if Smith is earlier in book
open to middle of left half of book
go back to step 2
else if Smith is later in book
open to middle of right half of book
go back to step 2
else
quit
0 pick up phone book
1 open to middle of phone book
2 look at names
3 if Smith is among names
4 call Mike
5 else if Smith is earlier in book
6 open to middle of left half of book
7 go back to step 2
8 else if Smith is later in book
9 open to middle of right half of book
10 go back to step 2
11 else
12 quit
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• functions
• conditions
• Boolean expressions
• loops
- functions
- conditions
- Boolean expressions
- loops
- variables
- threads
- events
- ...

...
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