This is CS50

cs50.yale.edu
2/3 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 end up relative to yourself at the start.
input → [square] → output
representation
ASCII
H
72

I
73

!
33
abstraction
Unicode
Yale Memes for Special Snowflake Teens
input → output
algorithms
pseudocode
1  Pick up phone book
2  Open to middle of phone book
3  Look at names
4  If Smith is among names
5     Call Mike
6  Else if Smith is earlier in book
7     Open to middle of left half of book
8     Go back to line 3
9  Else if Smith is later in book
10    Open to middle of right half of book
11    Go back to line 3
12  Else
13    Quit
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- functions
- conditions
- Boolean expressions
- loops
- functions
- conditions
- Boolean expressions
- loops
- variables
- threads
- events
- ...

...
input → algorithms → output
hello, world → algorithms → output
hello, world → say → output
hello, world → say → hello, world
input → algorithms → output
What's your name? → algorithms → output
What's your name? → ask and wait → output
What's your name? → ask and wait → answer
input → algorithms → output
hello, answer → algorithms → output
hello, answer → join → hello, David
hello, David
hello, David
hello, David
→
say
→
hello, David
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