

ALGORITHM

The word 'ALGORITHM' is written in a stylized, outlined font. Red arrows connect the letters in a specific sequence: A to L (diagonal up), L to G (horizontal), G to O (horizontal), O to R (diagonal up), R to I (horizontal), I to T (horizontal), T to H (diagonal down), and H to M (horizontal). This sequence of arrows represents a path through the letters of the word.



Pseudocode

Pseudo

(RESEMBLING)

code

(PROGRAMMING LANGUAGE)

Pseudocode



let **N** = 0



for each person in room



Set **N** = **N** + 1

variable



let **N** = **0**



for each person in room



Set **N** = **$N + 1$**



let **N** = **0**



for each person in room



Set **N** = **$N + 1$**

loop



let **N** = **0**



for each person in room



Set **N** = **$N + 1$**

TEST COMPLETE

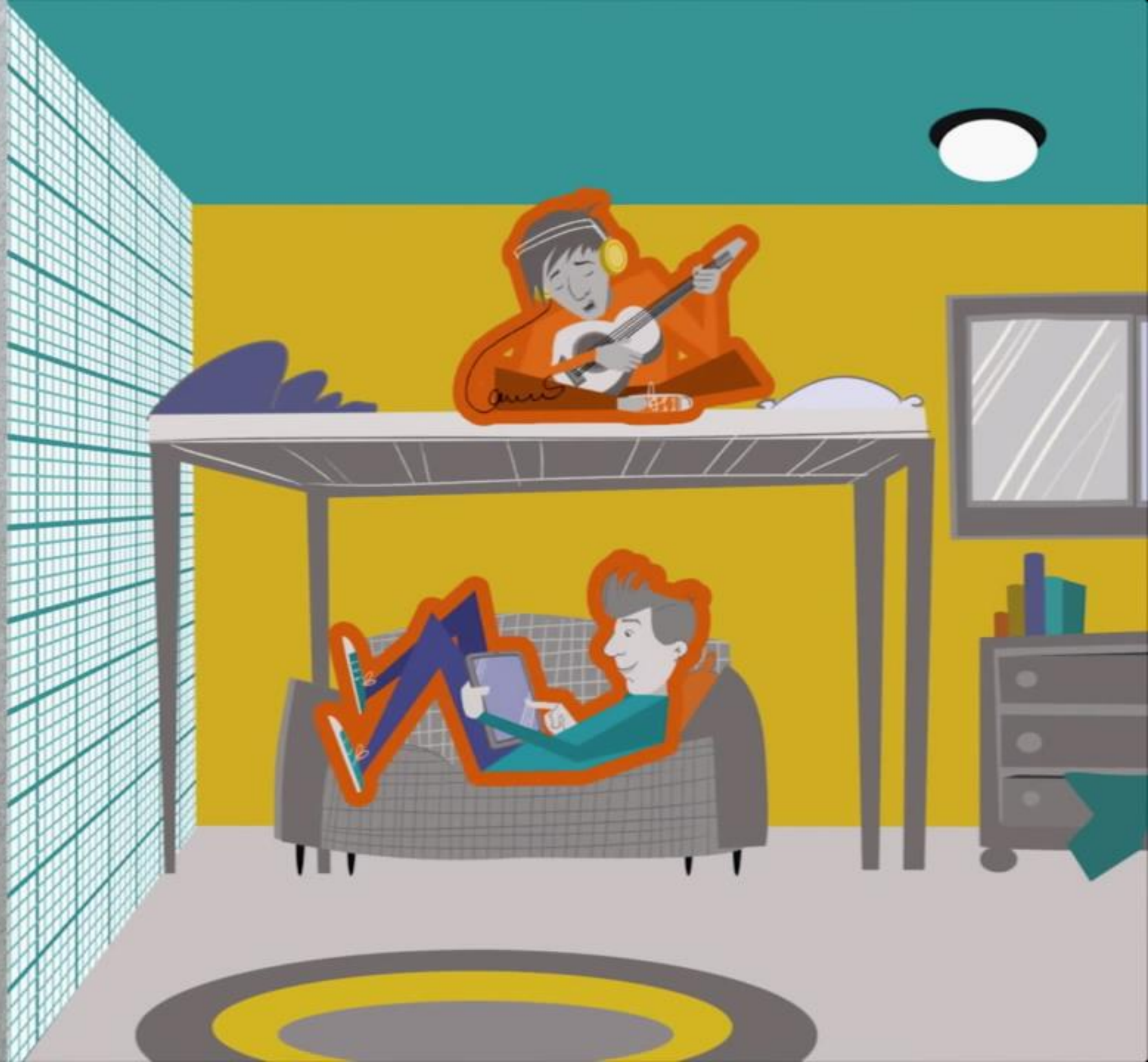


let **N** = 0

for each person in room

Set **N** = **N** + 1

2



TEST COMPLETE

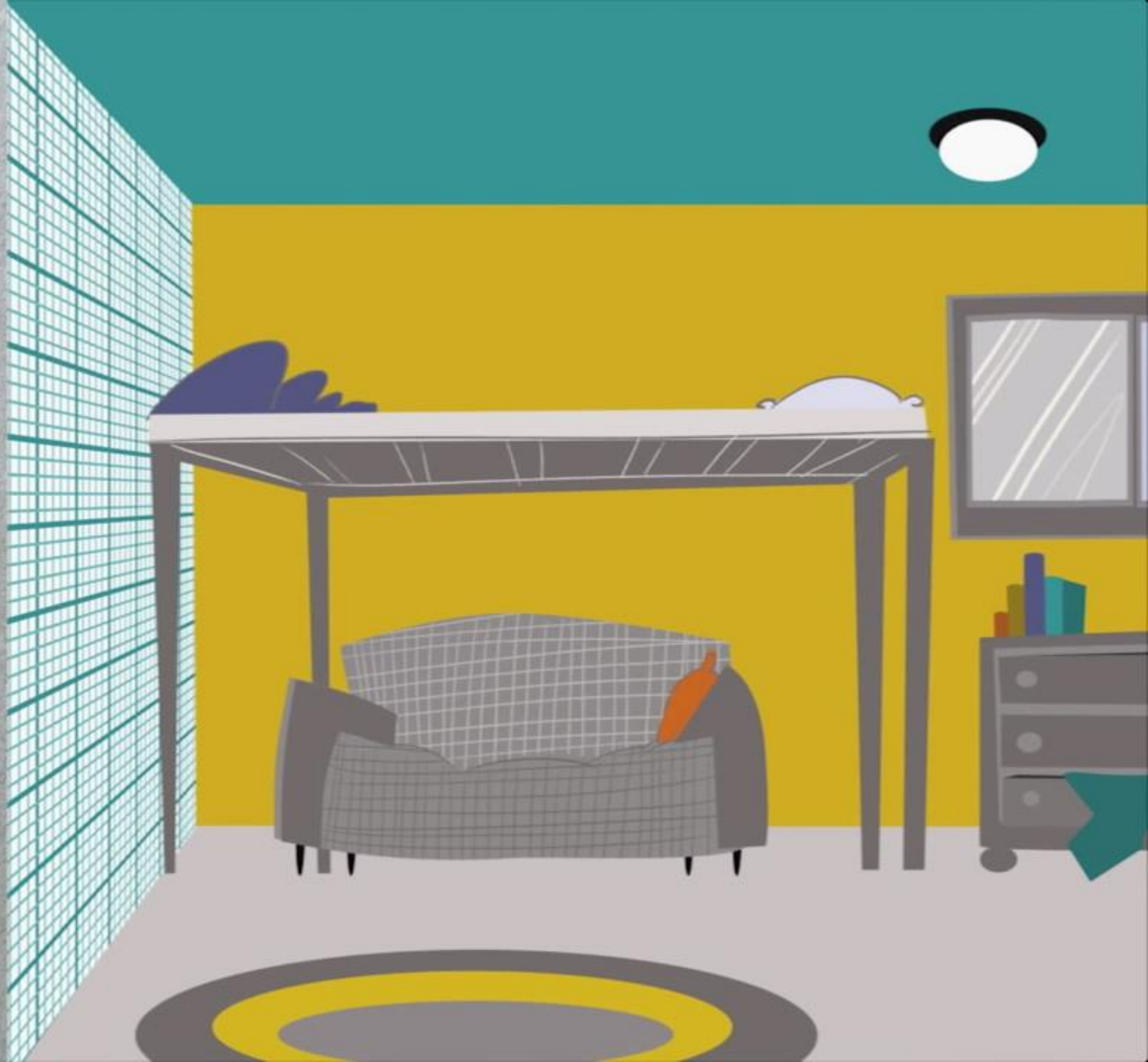


let **N** = 0

for each person in room

Set **N** = **N** + 1

0



TEST COMPLETE



let **$N = 0$**

for each pair of people in room

Set **$N = N + 2$**

2



TEST COMPLETE



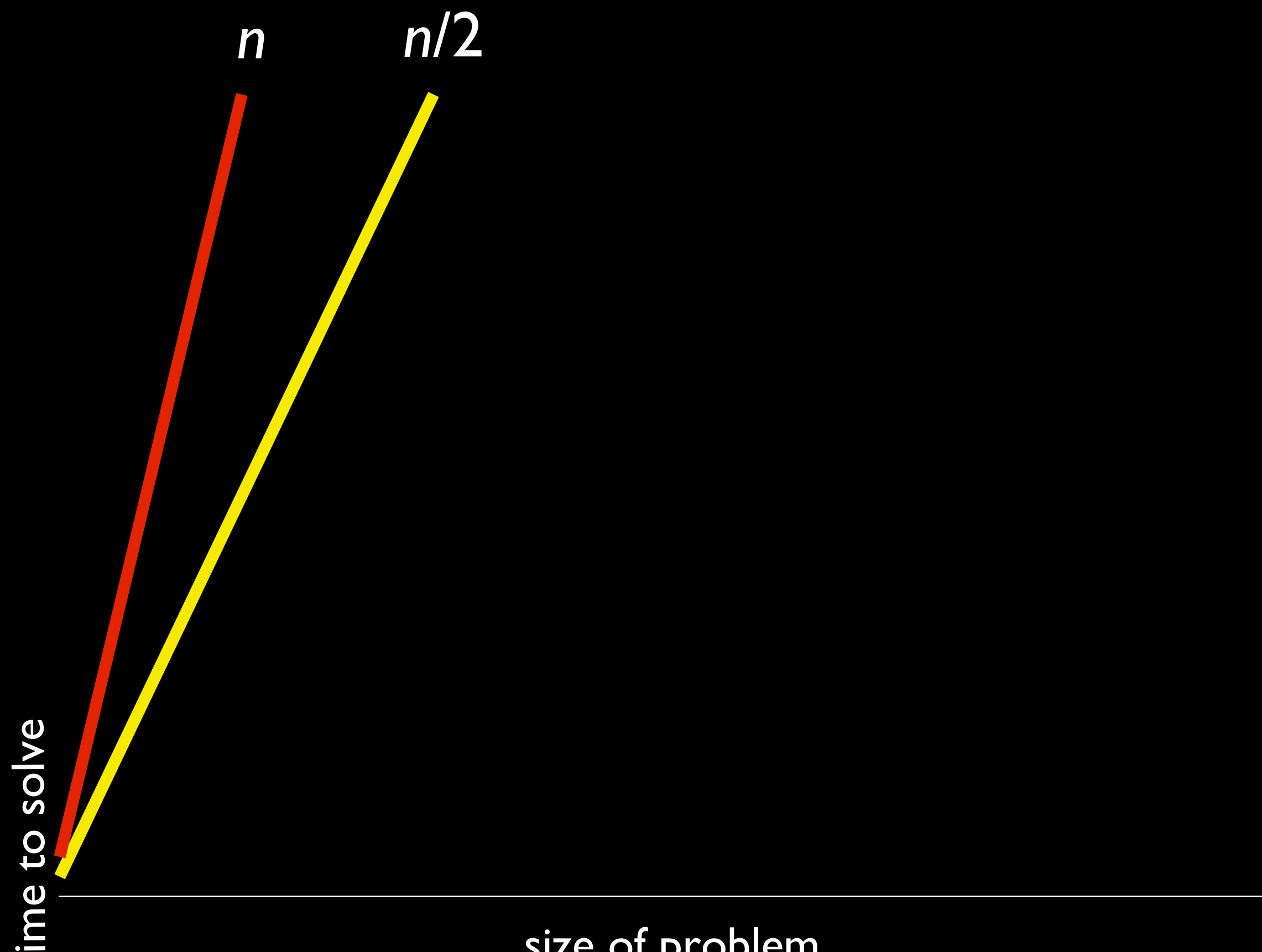
let **N** = 0

for each pair of people in room

Set **N** = **N** + 2

0





BUGGY!



let **N** = 0

for each pair of people in room

Set **N** = **N** + 2

2



condition

TEST COMPLETE



let **N** = 0



for each pair of people in room



Set **N** = **N** + 2



If 1 person remains then



Set **N** = **N** + 1

3



code source code

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
    printf("hello,
```

```
world\n");
```

```
}
```

compiler

source code

compiler

source code

compiler object code

[illegible]

00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00100000	00000000	00000000

...

when  clicked

say hello, world!

say hello, world!

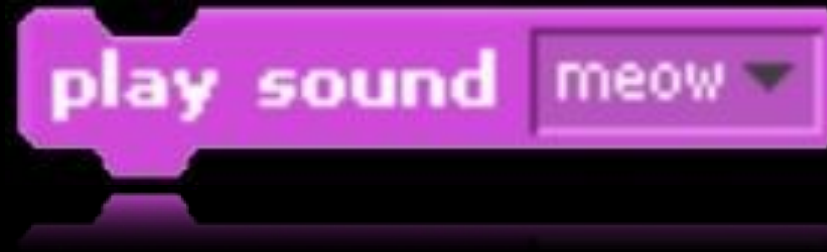
scratch.mit.edu
statements



statements



statements



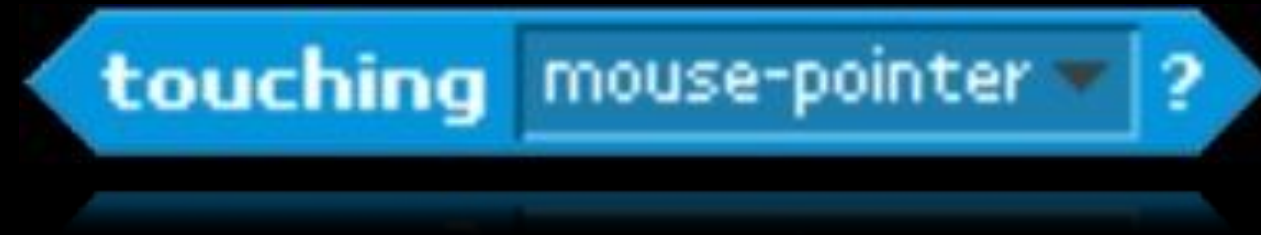
Boolean expressions

mouse down?

Boolean expressions



Boolean expressions



Boolean expressions



Boolean expressions
conditions
conditions

conditions

loops

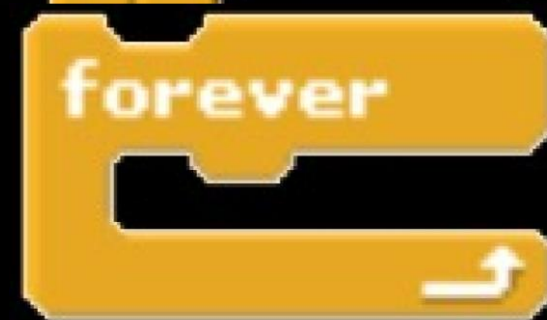


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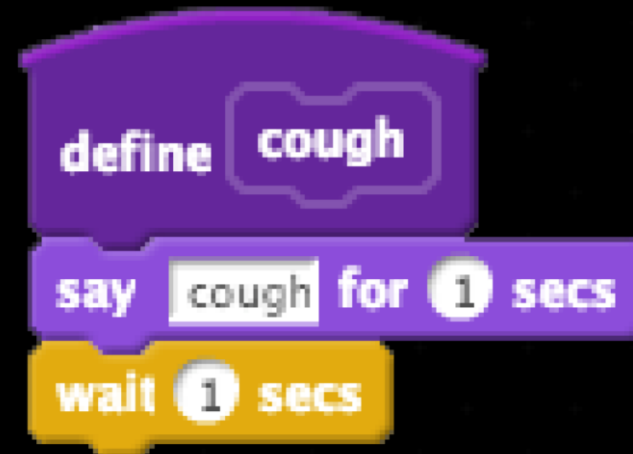
loops & ifs



set **N** to 0

functions

arrays





add thing to inventory ▼

threads