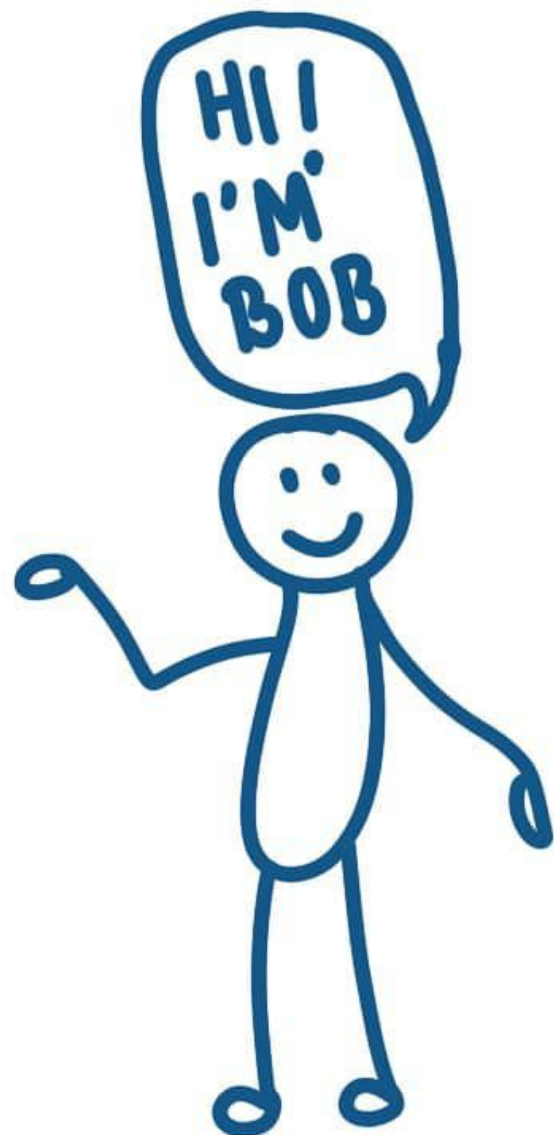


EXPLAIN LIKE
I'M FIVE

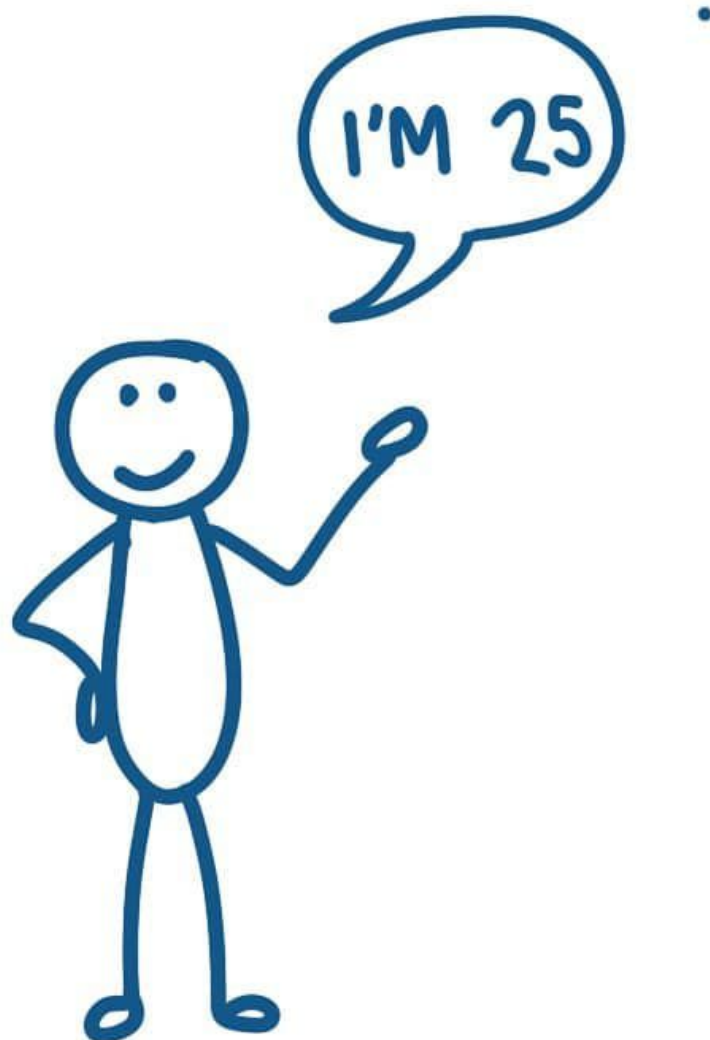
Binary
Search



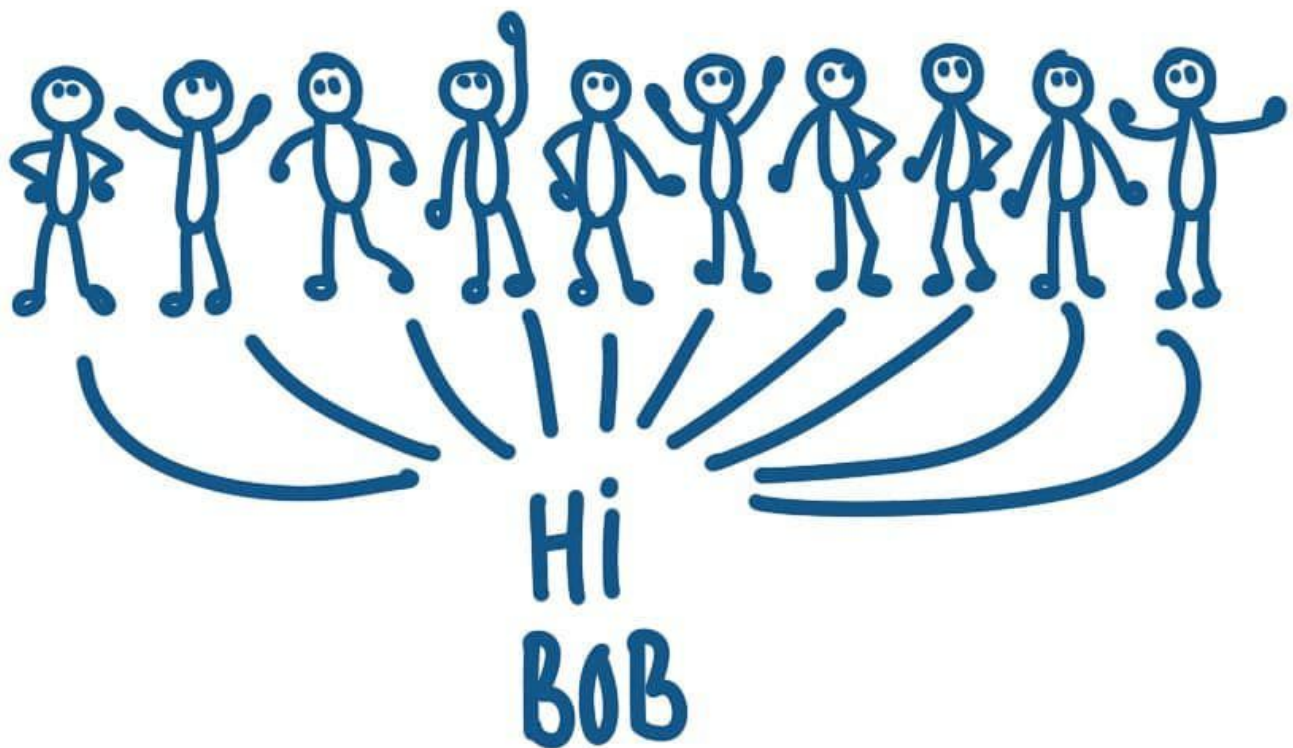
Bob is looking for a
best friend.
Fortunately there are
10 people who want
to be Bob's friend too!



However, Bob wants only one best friend and they have to be of the same age as Bob!

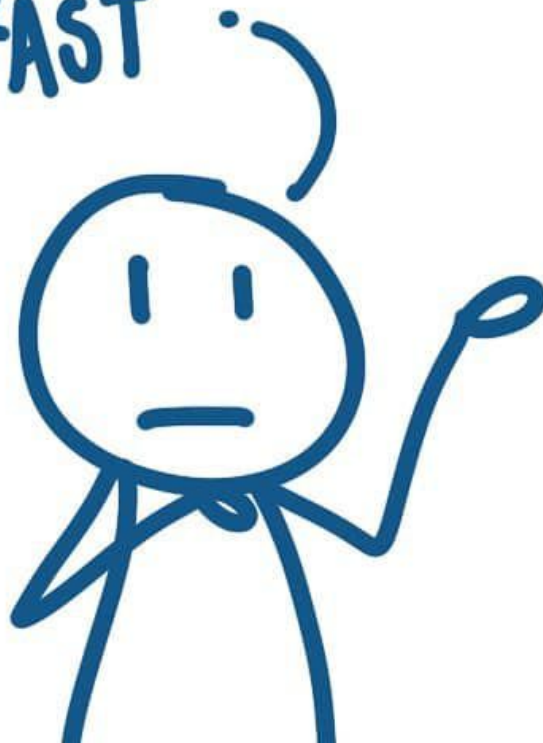


But Bob doesn't know their ages yet! But he knows that they are standing in a queue in increasing order of their ages.

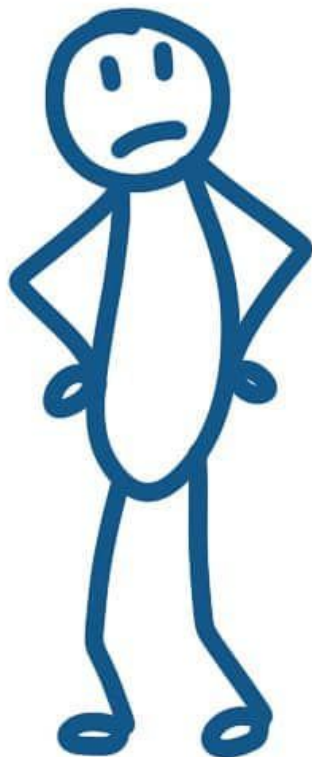


Now Bob decided to talk to every person in the queue one by one from the beginning and ask how old they are.

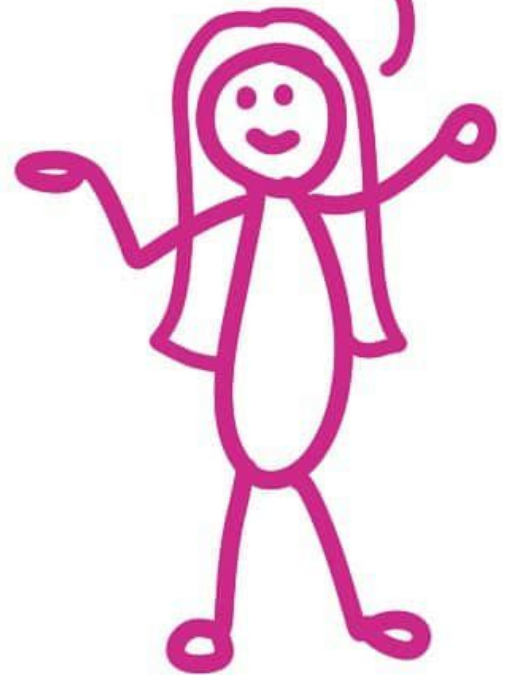
**BUT I WANT
A FRIEND
FAST**



Asking everyone is
not very efficient. So,
Ms. Binary Search
decided to help him!

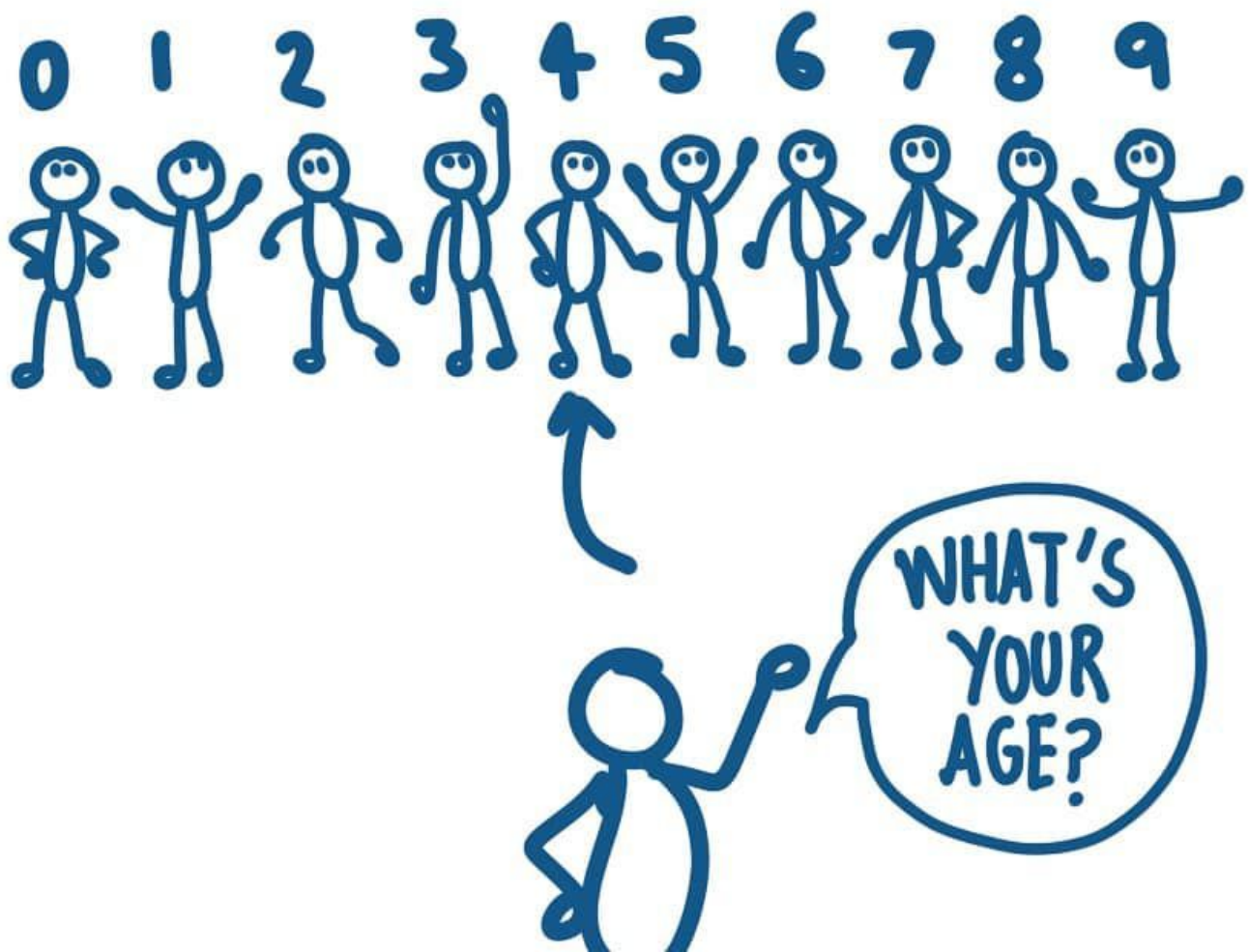


I'LL HELP YOU

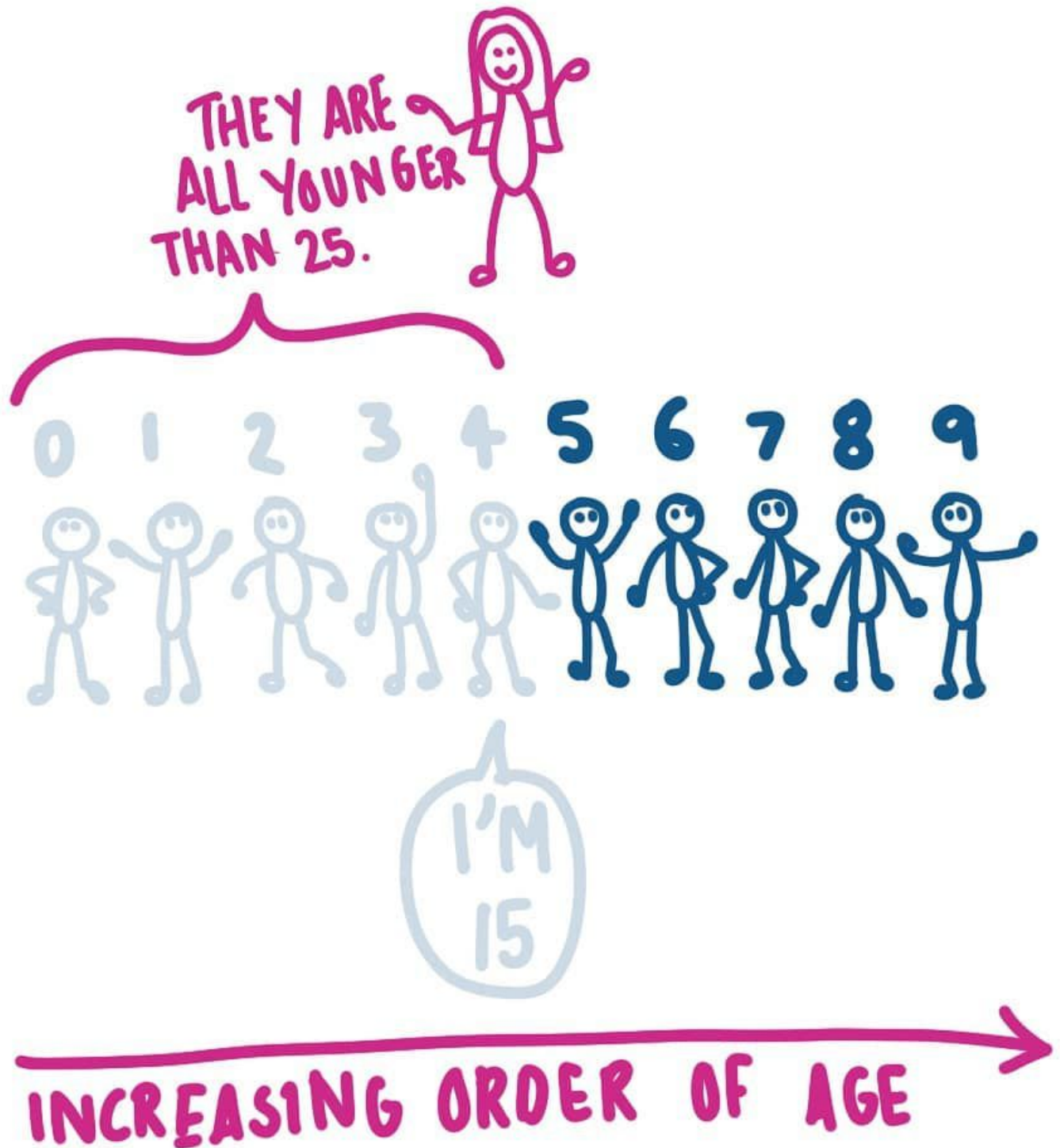


MS. BINARY
SEARCH

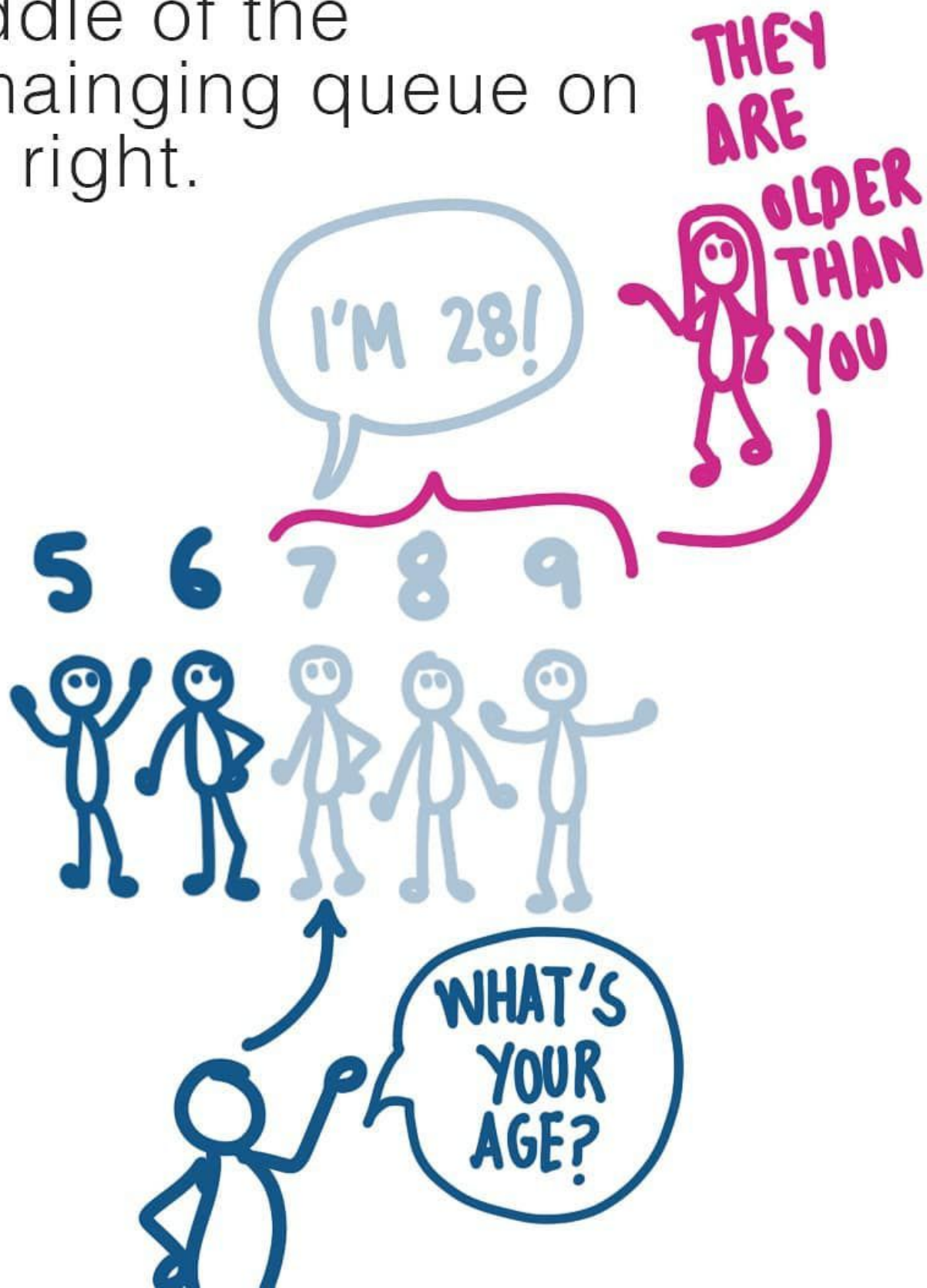
Ms Binary Search suggests Bob to go to the person standing in the middle of the queue first i.e. 5th person (or alternatively 6th) and ask them their age.



The person at 5th spot is 15 years old which means Bob can skip asking the people standing to the left of them.



Now Bob moves to the person standing in the middle of the remaining queue on the right.



Bob keeps on repeating this until he finds his best friend or there's no middle left anymore.

MY JOB
IS
DONE

