

Logical operators

1. What is the code below going to output?

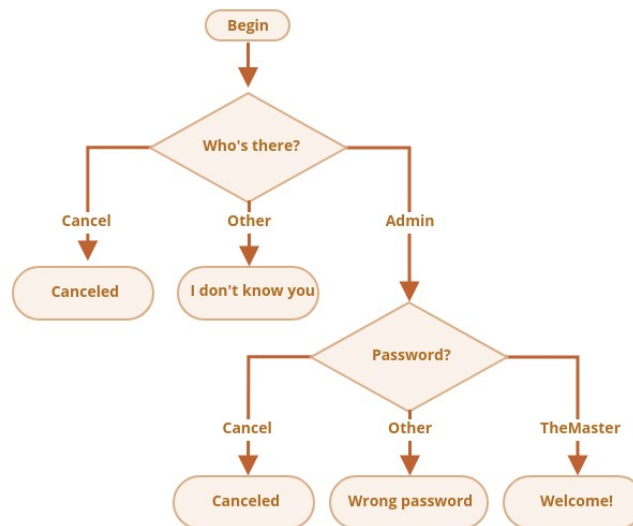
```
alert( null || 2 || undefined );  
alert( alert(1) || 2 || alert(3) );  
alert( 1 && null && 2 );  
alert( alert(1) && alert(2) );  
alert( null || 2 && 3 || 4 );
```

2. Check the range between. Write an if condition to check that age is between 14 and 90 inclusively. “Inclusively” means that age can reach the edges 14 or 90.
3. Check the range outside. Write an if condition to check that age is NOT between 14 and 90 inclusively. Create two variants: the first one using NOT !, the second one – without it.
4. Which of these alerts are going to execute?

```
if (-1 || 0) alert( 'first' );  
if (-1 && 0) alert( 'second' );  
if (null || -1 && 1) alert( 'third' );
```

5. Check the login. Write the code which asks for a login with prompt. If the visitor enters "Admin", then prompt for a password, if the input is an empty line or Esc – show “Canceled”, if it’s another string – then show “I don’t know you”. The password is checked as follows:
 1. If it equals “TheMaster”, then show “Welcome!”,
 2. Another string – show “Wrong password”,
 3. For an empty string or cancelled input, show “Canceled”

The schema:



Hint: passing an empty input to a prompt returns an empty string ' '. Pressing ESC during a prompt returns null.