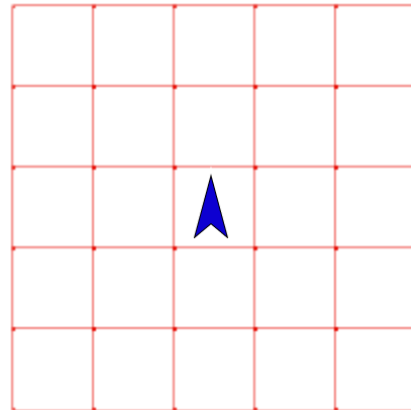


Beauty and Joy of Computing Unit 2 Assessment

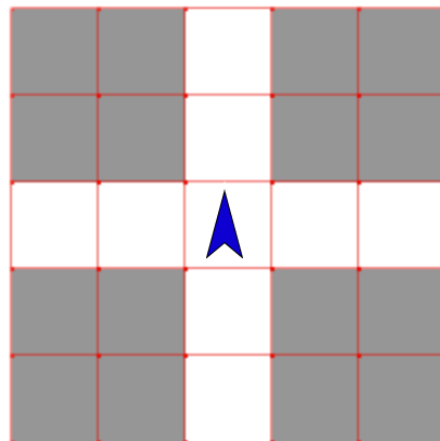
- (1) A robot (arrow) is sitting in the middle of a 5×5 grid facing upwards. Shade all the squares in the grid that the robot cannot get to, if the given code is executed.

```
set X to pick random 2 to 3
repeat X
  Turn Right
set Y to pick random 1 to 2
repeat Y
  Move Forward
```

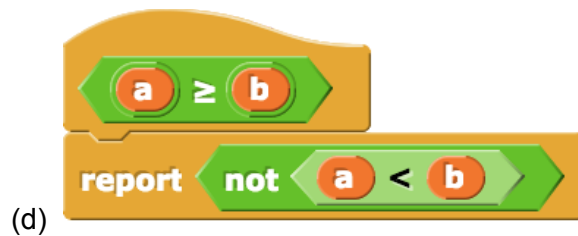


- (2) What numbers should go into the empty input slots of this code if all the squares the robot cannot get to are shown in grey?

```
set X to pick random  to 
repeat X
  Turn Right
set Y to pick random  to 
repeat Y
  Move Forward
```



(3) Below four definitions are given for $a \geq$ predicate. At least one of them is wrong. Explain why each is right or wrong.



- (4) Suppose you are given the following block that reports the maximum of two input numbers as shown below.



How would you use the block above to define the following block which reports the maximum of three input numbers?

