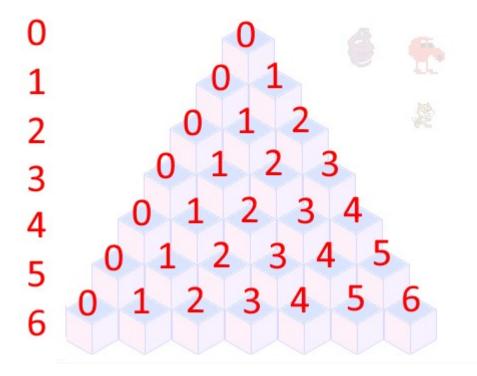
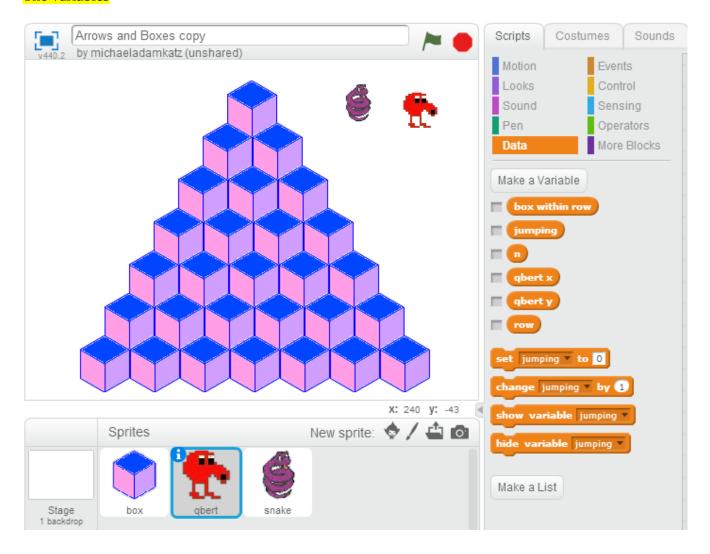
# The numbering of the spaces



### The variables



## The box script

```
when R clicked
DrawBoard
 define DrawBoard
                         define Row how many
 clear
                         repeat how many
 go to x: 0 y: 128
                           stamp
set n ▼ to 1
                           change x by 53
 repeat 7
  Row n
                         change x by (-53 * how many
  change n ▼ by 1
  change y by -45
  change x by -26
hide
```

#### The Qbert script

```
when 🦰 clicked
Initialize Qbert
                               define Jump c row change
                                                            box change
define Initialize Qbert
                               if jumping = 1 then
set size to 60 %
switch costume to qbert1 v
                                 stop this script ▼
set row ▼ to 0
                               set jumping to 1
set box within row ▼ to 0
                               switch costume to c
Compute Coordinates
                               change row ▼ by row change
go to x: qbert x ) y: qbert y
set jumping ▼ to 0
                               change box within row ▼ by box change
                               Compute Coordinates
 when d ▼ key pressed
                               glide 0.25) secs to x: qbert x y: qbert y
Jump qbert1 1 1
                               set jumping v to 0
                               Check Death
when a ▼ key pressed
Jump qbert2 1 0
                                 define Compute Coordinates
when e v key pressed
                                set qbert x v to row * -27 + box within row * 53
Jump qbert3 -1 0
                                 set qbert y v to 130 - row * 45 + 30
when q ▼ key pressed
 Jump qbert4 -1 -1
 define Check Death
                                                                                 Q = Q
```

#### Easier challenges:

- Play a (not too loud) sound each time Qbert lands on a square.
- Copy the Qbert sprite and make a second Qbert character that uses other keys. One person can control the first Qbert and another person can control the other one.
- Write the "Check Death" function. The function should consider the variables "row" and "box within row" and figure out if qbert is off the board. If he is, have him say something funny for a couple seconds, then call "Initialize Qbert" to put him back on the start space.

## Harder challenges:

- Make the snake jump around the board randomly, but don't let it jump off the board.
- Use "broadcast to send a message to the block to have it change the block color when Qbert lands on a block. Do this by "stamp"ing the block in that position.
- Can you figure out when the board is complete and Qbert has won? This is not so easy. It probably requires using a list.