

# Word Problem: update-player

**Directions :** The player moves up and down by 20 pixels each time. Write a function called `update-player` , which takes in the player's y-coordinate and the name of the key pressed ("up" or "down"), and returns the new y-coordinate.

## Contract and Purpose Statement

Every contract has three parts...

# `update-player::` Number, String  $\rightarrow$  Number  
*function name* *domain* *range*

# Produce new y-coordinate depending on key pressed  
*what does the function do?*

## Examples

Write some examples, then circle and label what changes...

**examples:**

`update-player` ( 320, "up" ) **is** 320 + 20  
*function name* *input(s)* *what the function produces*

`update-player` ( 100, "up" ) **is** 100 + 20  
*function name* *input(s)* *what the function produces*

`update-player` ( 320, "down" ) **is** 320 - 20  
*function name* *input(s)* *what the function produces*

`update-player` ( 100, "down" ) **is** 100 - 20  
*function name* *input(s)* *what the function produces*

**end**

## Definition

Write the definition, giving variable names to all your input values...

**fun** `update-player`( y, key ):  
*function name* *variable(s)*

**ask:**

| `key == "up"` **then:** y + 20

| `key == "down"` **then:** y - 20

| **otherwise:** y

**end**

**end**