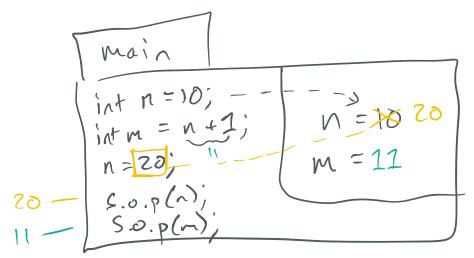
(Local) Variables + Variable Update Inside a rethod: Variable definition String s = "abc" + "def"; type

expression declaration Systemoutiprinh(10) X = 15 15 prints

this evaluates to a value,

then updates value

X = X + 1; Stored in X This makes little sense in math notation



(In sava)

A variable update
can only affect
the value stored
within a sigle
variable.

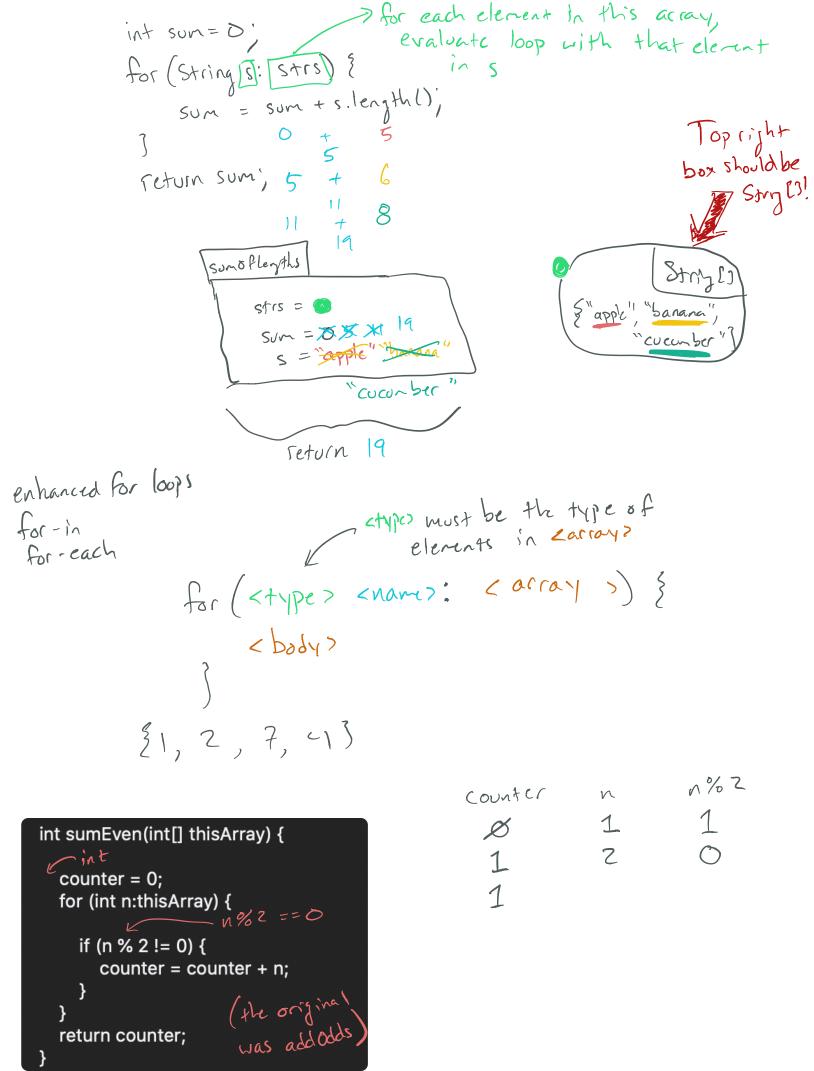
Loops - doing more useful work with arrays

String:

int length()

takes no argumets, returns # of characters in Stry

Arrays legth - special length freld of Arrays, arrays have no length() method



```
int sumEvens(int[] integers){
  int total = 0;
  for(int x: integers){
     if(x\%2 == 0){
                                    Doesn't change
any answers
       total = total + x;
     else{
       total = total + 0;
  return total;
```

```
int sumEvens(int[] arr){
         int sum = 0;
         for (int i: arr){
  ...>
           if (i \% 2 == 0){
              sum += i;
           }
  ...>
  ...>
  ...>
  ...>}
```

The should ignore this part as human readers