

HW_Print First Vowel occurrence

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();

char charArray[] = new char[n];
for(int i = 0; i < n; i++){
    charArray[i] = s.next().charAt(0);
}

//index of first vowel
int index = -1;
for(int i = 0; i < n; i++){
    if(isVowel(charArray[i])){
        index = i;
        break;
    }
}
System.out.println(index);
}
```

```
public static boolean isVowel(char c){
    return c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u';
}
```

5
arr 0 1 2 3 4
 b | c | i | o | z
 ✓ ✓

~~index = -1~~ 2 2

i = 0

arr[0] = b F

i = 1

arr[1] = c F

i = 2

arr[2] = i ✓
break

3 0 1 2
 b | c | d
index = -1 op (-1)

i = 0

arr[0] = b F

i = 1

arr[1] = c
F

i = 2

arr[2] = d
F

HW_Print All Composite Number of Array

```
scanner s =  
    int n;  
int arr[] =  
    for(){  
        arr[i]  
    }  
  
// output  
for(){  
    if(isComposite(num)){  
        Syso(num);  
    }  
}  
  
public static boolean isComposite(int num){  
    if(num <= 1) return false;  
    for(int i = 2; i <= Math.sqrt(num); i++){  
        if(num % i == 0){  
            return true;  
        }  
    }  
    return false;  
}
```

$n=3$ arr

0	1	2
5	10	1

$[1, 5]$
 $1 \text{ } \textcircled{3} \text{ } 9$

$i=0$
 $arr[0] = 5$
 $i=2; \leq 2 \dots$
 $5 \div 2 = 0 \text{ F}$
 F

$i=1$
 $arr[1] = 10$
 $i=2; \leq 3$
 $10 \div 2 = 0 \text{ T}$
 $10 \div 3 = 0 \text{ F}$
 T

$\sigma/p \rightarrow 10$

$i=2$
 $arr[2] = 1$
 $1 \leq 1 \text{ T} - \text{F}$

HW_First NON Matching Value From End

Scanner s =

// first array input

// second array input

// first mismatch index

int index = -1; // default value if all elements match

for(int i = n - 1; i >= 0; i--){

if(arr1[i] != arr2[i]){

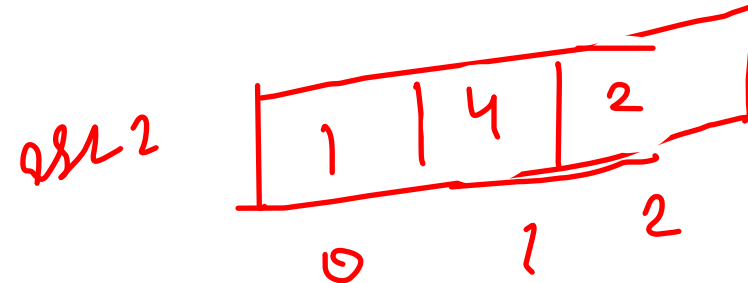
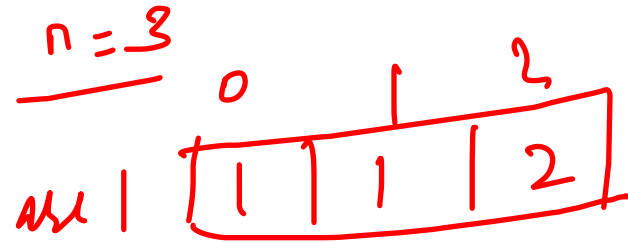
index = i;

break;

}

}

Syso(index);



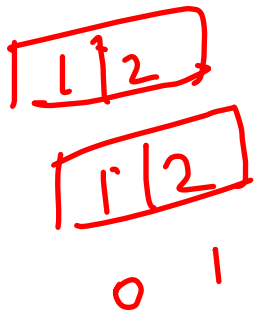
index = 1

$i=2 \geq 0$

$arr1[2] \neq arr2[2] \Rightarrow 2 \neq 2 \text{ f}$

$i=1 \geq 0$

$arr1[1] \neq arr2[1] \Rightarrow 1 \neq 4 \rightarrow \text{true}$
break;



op $\rightarrow -1$