Day06 (H1)

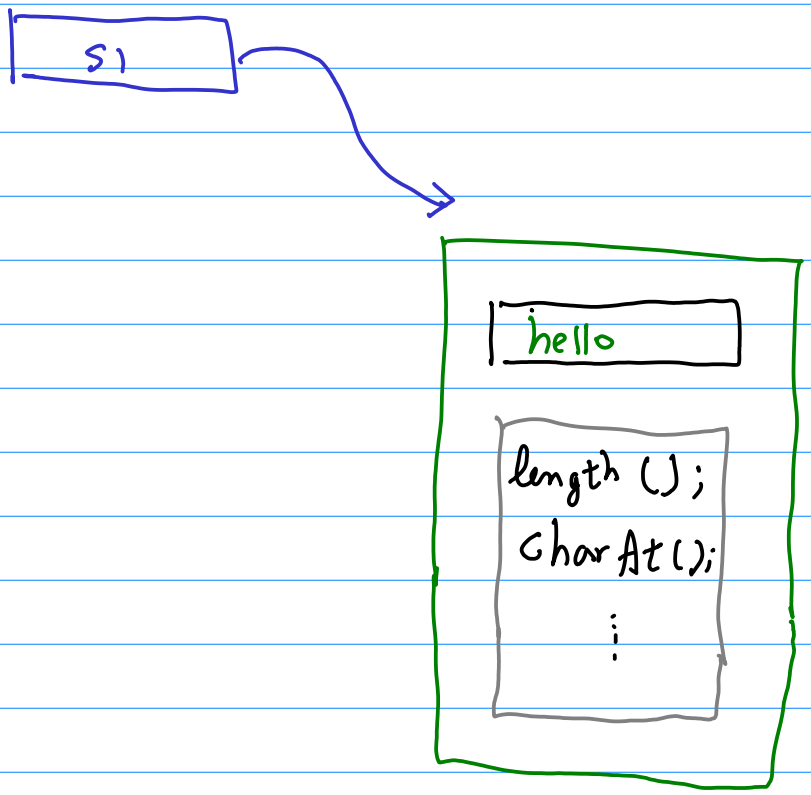
20150818

String
While loop

Class type 객체참조변수

→ Rect R1;

→ String s1 = "hello";

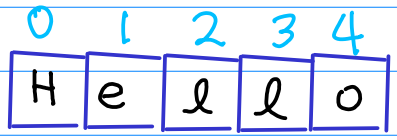


```java
String s1 = "Hello";

System.out.println( s1 );

System.out.println( s1.length() );

System.out.println( s1.charAt(0) );
System.out.println( s1.charAt(1) );
System.out.println( s1.charAt(2) );
System.out.println( s1.charAt(3) );
System.out.println( s1.charAt(4) );
```

method

charAt(i)

(i)번째 index의 있는 문자 반환



배열

문자 배열

문자 배열

s2.charAt(0) ⇒ H

s2.charAt(1) ⇒ e

s2.charAt(2) ⇒ l

s2.charAt(3) ⇒ l

s2.charAt(4) ⇒ o

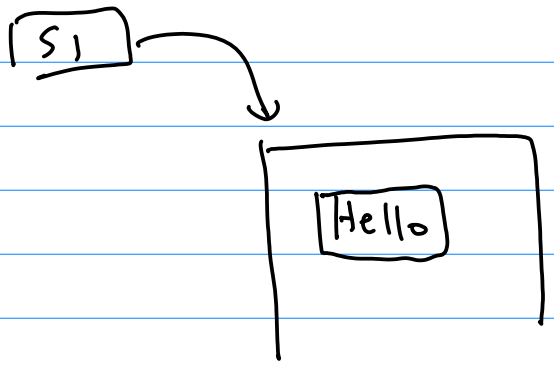
```
String s1 = "Hello";

System.out.println( s1 );

System.out.println( s1.length() );

System.out.println( s1.charAt(0) );
System.out.println( s1.charAt(1) );
System.out.println( s1.charAt(2) );
System.out.println( s1.charAt(3) );
System.out.println( s1.charAt(4) );
```

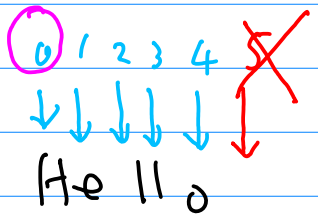
k = 0, 1, 2, 3, 4

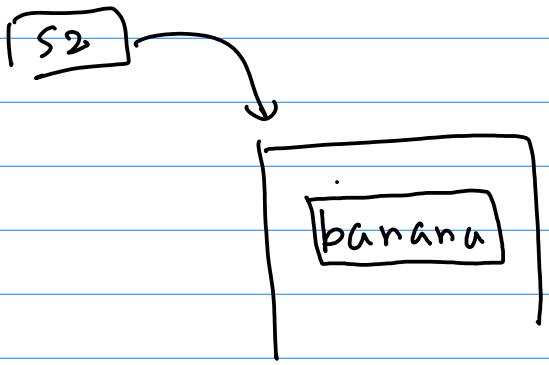
5

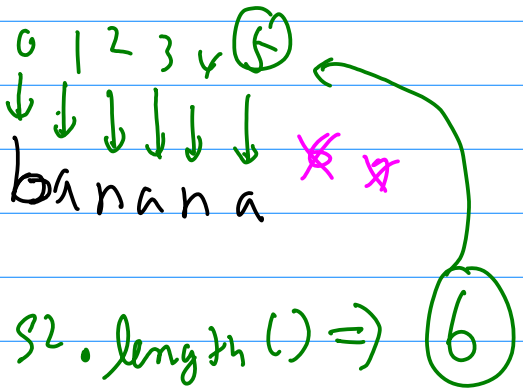
```
int k;

for (k=0; k<s1.length(); ++k) {
    System.out.print(k + "----> ");
    System.out.println( s1.charAt(k) );
}
```

s1.length() ⇒ 5









```java
String s2 = "banana";

k=0;
while ( k < s2.length() ) {
    k++;
    System.out.print(k + "----> ");
    System.out.println( s2.charAt(k) );
}
```

0. 1, 2. 3, 4. 5

→ 1, 2, 3, 4, 5, 6 (crossed out)

1 ---->

0	1	2	3	4	5
b	a	n	a	n	a

S2.charAt(0) ⇒ b

S2.charAt(1) ⇒ a

S2.charAt(2) ⇒ n

S2.charAt(3) ⇒ a

S2.charAt(4) ⇒ n

S2.charAt(5) ⇒ a

S2.charAt(6) ⇒ X error!

```
k=0;
while( k < s2.length() ) {
    System.out.print(k + "----> ");
    System.out.println( s2.charAt(k) );

    k++;
}
```

k=0, 1, 2, 3, 4, 5

k=1, 2, 3, 4, 5, 6

```
String s2 = "banana";

k=0;
while( k < s2.length() ) {
    k++;
    System.out.print((k-1) + "----> ");
    System.out.println( s2.charAt(k-1) );
}
```

k++

++k

k = k + 1;

k += 1

k--

--k

k = k - 1;

k -= 1

a += b

a -= b

a *= b

a /= b

a = a + b

a = a - b

a = a * b

a = a / b

```java
int a = 10;
int b = 2;

a=10; b=2;
System.out.println("a= " + a + " b= " + b);
System.out.println("a+=b --> " + (a+=b) );
System.out.println("a= " + a + " b= " + b);
System.out.println();

a=10; b=2;
System.out.println("a= " + a + " b= " + b);
System.out.println("a-=b --> " + (a-=b) );
System.out.println("a= " + a + " b= " + b);
System.out.println();

a=10; b=2;
System.out.println("a= " + a + " b= " + b);
System.out.println("a*=b --> " + (a*=b) );
System.out.println("a= " + a + " b= " + b);
System.out.println();

a=10; b=2;
System.out.println("a= " + a + " b= " + b);
System.out.println("a/=b --> " + (a/=b) );
System.out.println("a= " + a + " b= " + b);
System.out.println();
```

```
for ( k = 0 ; k < 5 ; ++ k ) ; {
        System.out. println ( k ) ;
}

for ( k = 0 ; k < 5 ; ++ k ) ;

{ System.out. println ( k ) ; }
```