23BAI1117 – BCSE103E – Java
30/07/2024 – Day4

https://github.com/sriram-s-23BAI1117/javap

1)

StringBufferExample.java > ...

```java
public class StringBufferExample{
    Run | Debug
    public static void main(String[] args){
        StringBuffer sb = new StringBuffer("Hello ");
        sb.append("Java");
        System.out.println(sb);
    }
}
```

```
student@AB1-404A-78:~/23BAI1117$  cd /h
suspend=y,address=localhost:34413 -XX:+S
at.java/jdt_ws/23BAI1117_cbbb58ba/bin St
Hello Java
```

2)

StringBufferExample2.java > ...

```java
public class StringBufferExample2 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("Hello");
        sb.insert(1, "Java");
        System.out.println(sb);
    }
}
```

```
student@AB1-404A-78:~/23BAI1117$  /usr/bin/
6657 -XX:+ShowCodeDetailsInExceptionMessages
58ba/bin StringBufferExample2
HJavaello
```

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3)

```java
public class StringBufferExample3 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("Hello");
        sb.replace(1, 3, "Java");
        System.out.println(sb);
    }
}
```

```
student@AB1-404A-78:~/23BAI1117$  cd /home/studen
suspend=y,address=localhost:41229 -XX:+ShowCodeDe
at.java/jdt_ws/23BAI1117_cbbb58ba/bin StringBuffe
HJavalo
```

4)

```java
public class StringBufferExample4 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("Hello");
        sb.delete(1, 3);
        System.out.println(sb);
    }
}
```

```
student@AB1-404A-78:~/23BAI1117$  /usr
7329 -XX:+ShowCodeDetailsInExceptionMe
58ba/bin StringBufferExample4
Hlo
```

5)

```java
public class StringBufferExample5 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("Hello");
        sb.reverse();
        System.out.println(sb);
    }
}
```

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```
student@AB1-404A-78:~/23BAI1117$  /usr/
9673 -XX:+ShowCodeDetailsInExceptionMes
58ba/bin StringBufferExample5
olleH
```

6)

```java
public class StringBufferExample6 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer();
        System.out.println(sb.capacity());
        sb.append("Hello");
        System.out.println(sb.capacity());
        sb.append("java is my favourite language");
        System.out.println(sb.capacity());
    }
}
```

```
student@AB1-404A-78:~/23BAI1117$  /usr/bin/env
2717 -XX:+ShowCodeDetailsInExceptionMessages -
58ba/bin StringBufferExample6
16
16
34
```

7)

```java
public class StringBufferExample7 {
    Run | Debug
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer();
        System.out.println(sb.capacity());
        sb.append("Hello");
        System.out.println(sb.capacity());
        sb.append("java is my favourite language");
        System.out.println(sb.capacity());
        sb.ensureCapacity(10);
        System.out.println(sb.capacity());
        sb.ensureCapacity(50);
        System.out.println(sb.capacity());
    }
}
```

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```
student@AB1-404A-78:~/23BAI1117_java$  /us
+ShowCodeDetailsInExceptionMessages -cp /h
ferExample7
16
16
34
34
70
```

StringBuilder

```java
StringBuilderExample.java > ...
1   public class StringBuilderExample {
        Run | Debug
2       public static void main(String[] args) {
3           StringBuilder sb = new StringBuilder("Hello");
4           sb.append("Java");
5           System.out.println(sb);
6           sb.insert(5, ", ");
7           System.out.println(sb);
8           sb.replace(5, 7,"_");
9           System.out.println(sb);
10          sb.delete(6, 11);
11          System.out.println(sb);
12          sb.reverse();
13          System.out.println(sb);
14          System.out.println(sb.capacity());
15          sb.ensureCapacity(10);
16          sb.append("java_is_my_favourite_language");
17          System.out.println(sb.capacity());
18          sb.ensureCapacity(50);
19          System.out.println(sb.capacity());
20      }
21  }
```

```
student@AB1-404A-78:~/23BAI1117_java$  cd /
,server=n,suspend=y,address=localhost:45919
01bd4/redhat.java/jdt_ws/23BAI1117_java_be6
HelloJava
Hello, Java
Hello_Java
Hello_
_olleH
21
44
90
```

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3rd Largest Number in the array.

IIILargestNumber.java > ...

```java
import java.util.ArrayList;
import java.util.Scanner;

public class IIILargestNumber {
    Run | Debug
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter the length of the array: ");
        int n = input.nextInt();
        ArrayList<Integer> arr = new ArrayList<>(n);
        System.out.println("Enter the elements of the array");
        for (int i=0;i<n;i++){
            arr.add(input.nextInt());
        }
        int n1=0,n2=0,n3=0;
        for (int i=0;i<n;i++){
            int num = arr.get(i);
            if (num>n1){
                n3=n2;
                n2=n1;
                n1 = num;
            }
            else if (num>n2){
                n3=n2;
                n2=num;
            }
            else if (num>n3){
                n3=num;
            }
        }
        System.out.println("The third largest number: "+n3);
        input.close();
    }
}
```

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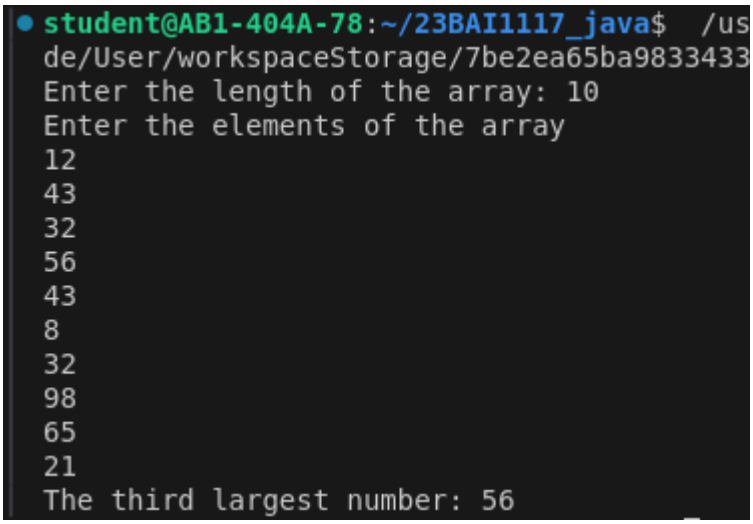

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