

Homework: Review II

1.

```
String str = in.nextLine();

// a
for (int i = 0; i < str.length(); i++) {
    if (Character.isUpperCase(str.charAt(i))) {

        System.out.println(str.charAt(i));
    }
}

// b
for (int i = 0; i < str.length(); i++) {
    (i % 2 == 1) {

        System.out.println(str.charAt(i));
    }
}

// c and d
char[] vowel = new char[] { 'a', 'e', 'i', 'o', 'u', 'y' };
boolean check = false;
int numVowel = 0;
for (int i = 0; i < str.length(); i++) {
    for (char c : vowel) {

        if (c == str.charAt(i)) {

            System.out.println("_");

            check = true;

            numVowel++;
        }
    }
}
```

```

    }

}

if (!check) {

    System.out.println(str.charAt(i));

}

check = false;
}

System.out.println(numVowel);

// e
for (int i = 0; i < str.length(); i++) {

    for (char c : vowel) {

        if (c == str.charAt(i)) {

            System.out.println(i);

        }

    }

}
}

```

2.

- a. 1111111111
- b. 1111111111
- c. 1111111111
- d. 1111111111
- e. 12345678910
- f. 1030507090
- g. 1030510305
- h. 1030110305

3.

```
int max = -99999999;

int min = 99999999;

for (int num: a) {

    if (num > max) {

        max = num;

    }

    if (num < min) {

        min = num;

    }

}
```

4.

```
int last = -999999;

boolean isOrdered = true;

for (int num: a) {

    if (num < last) {

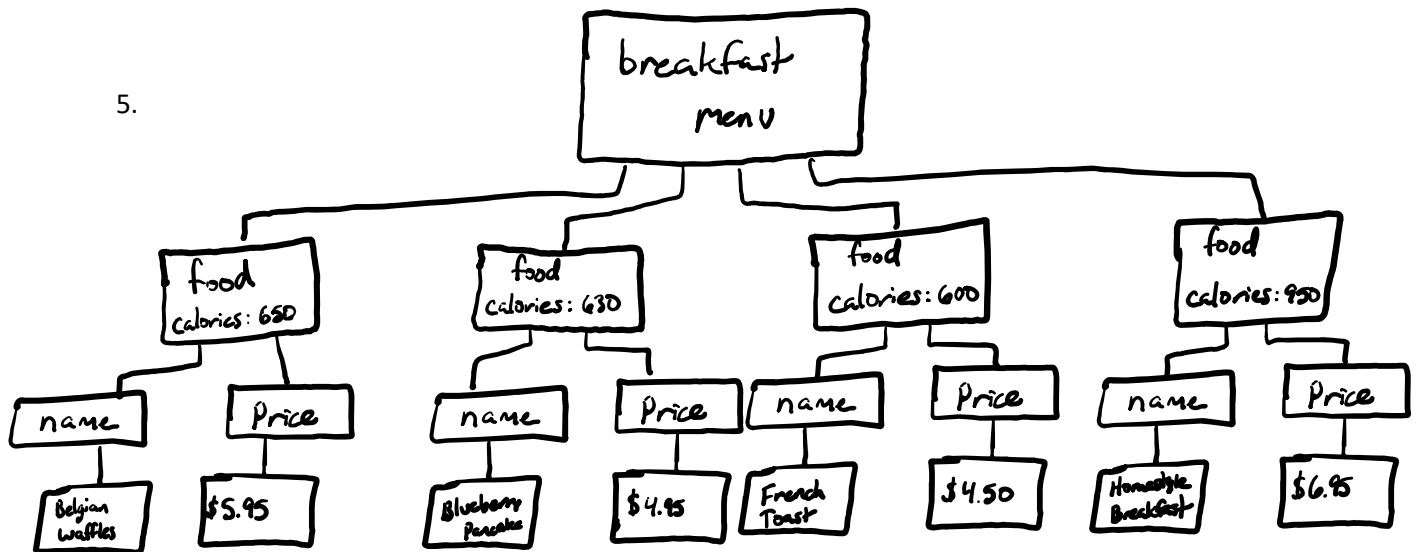
        isOrdered = false;

    }

    last = num;

}
```

5.



- i. false
- ii. "breakfast_menu"
- iii. 4
- iv. false
- v. food
- vi. true
- vii. "food"
- viii. 2
- ix. true
- x. 630
- xi. false
- xii. true
- xiii. "Blueberry Pancakes"

```
<breakfast_menu>
  <food calories="650">
    <name price="$5.95">Belgian Waffles</name>
  </food>
  <food calories="630">
    <name price="$4.95">Blueberry Pancakes</name>
  </food>
  <food calories="600">
    <name price="$4.50">French Toast</name>
  </food>
  <food calories="950">
    <name price="$6.95">Homestyle Breakfast</name>
  </food>
</breakfast_menu>
```

