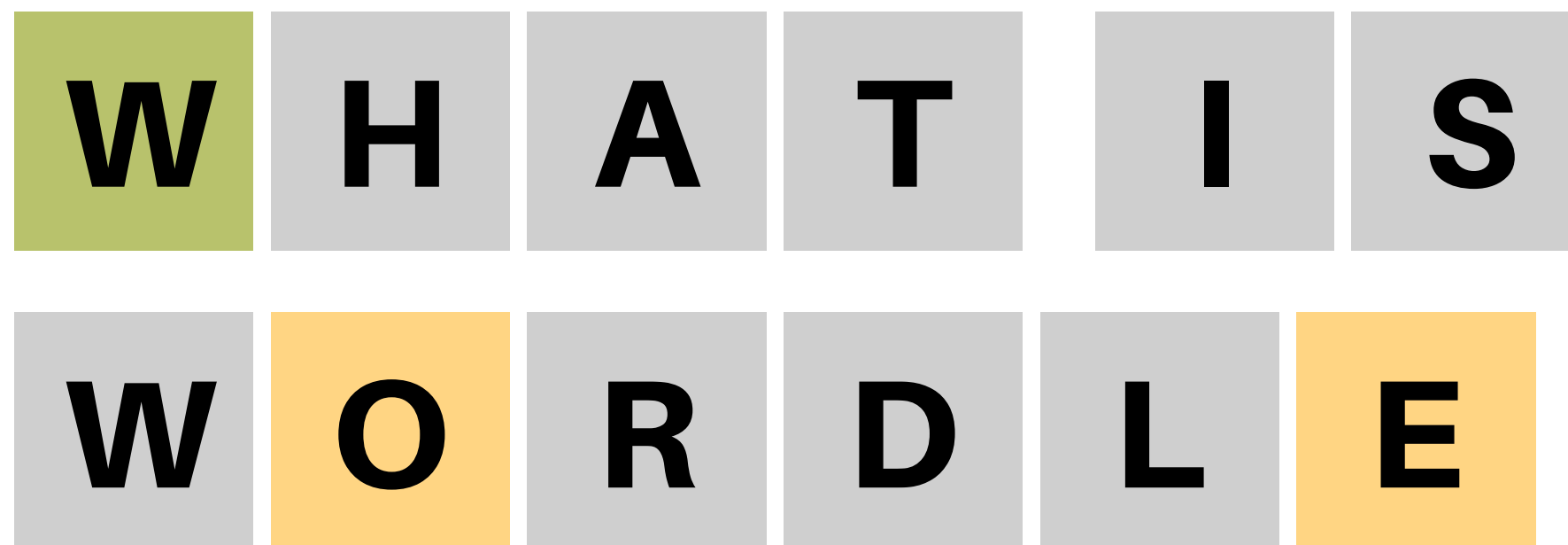ETH8N'S
WORDLE
HELPER
FINAL

Building a helper for the popular NYT word game Wordle

WHATIS

WORDLE

5 letter word game

green: the letter is in the right place

yellow: the letter is in the word, but not in the right place

grey: the letter is not in the word

How I Approached It:

- What user input do I need?
- What variables can I pull out?
- How do those variables interact with one another?

```java
//checkMain(dict);
for(int z=0; z<6;z++){

    ArrayList<String> rlb = buildGrey();
    ArrayList<ArrayList<String>> ylb = buildYellow();
    ArrayList<String> glb = buildGreen();
    ArrayList<String> cWord = getWord();
    ArrayList<String> cColor = getColor();

    dict = possibleMatches(dict,cWord,cColor,glb,ylb,rlb);

    if(dict.size()==1){ //end situation
        printList(dict);
        StdOut.println("was this the winning word? (input: y/n)");
        String answer = StdIn.readString();
        if(answer.equals("n")) StdOut.print("sorry! This bot is a w
        if(answer.equals("y")) StdOut.print("congratulations! You b
        break;
    }
    printList(dict);
}
```

Green

```
ArrayList<String>

glb = buildGreen();
glb = updateGreen(glb,
"a", 3)
```

***a*

Yellow

```
ArrayList<ArrayList<<
String>>
ylb = buildYellow();
ylb = updateYellow(ylb,
"a", 3)
```

[a][a][a][*][a]

Grey

```
ArrayList<String>

rlb = buildGrey();
rlb = updateGrey(rlb,
"a", 3)
```

a

C R A N E

First for loop:

```
if(cColor.get(i).equals("g")) green = updateGreen(glb, cWord.get(i),i);
if(cColor.get(i).equals("y")) yellow = updateYellow(ylb, cWord.get(i),i);
if(cColor.get(i).equals("r")) grey = updateGrey(rlb, cWord.get(i));
```

Word Banks:

****e   [r][*][r][r][*]   c,a,n

C R A N E

Second for loop:

```
if(cColor.get(i).equals("g")) dictionary=checkGreen(dictionary, green);
if(cColor.get(i).equals("y")) dictionary=checkYellow(dictionary, yellow);
if(cColor.get(i).equals("r")) dictionary=checkGrey(dictionary, grey);
return dictionary;
```

Deduced Words:

there are 40 remaining viable words. Try: dirge, puree, rouse, surge, or worse