

# COP 3330 Quiz Distribution

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Grade Range

# Students

45 - 50

18

40 - 44

33

A ~ 42/50

35 - 39

32

<sup>AVG</sup> (30) - 34

29

B ~ 32/50

25 - 29

27

20 - 24

30

C ~ 28/50

15 - 19

28

10 - 14

11

0 - 9

11

If score  $< 30$ , definitely need extra practice on material we've already covered.

If score  $< 15$ , probably need to write 400+ lines of code EVERY week!

TO IMPROVE GRADE

① Come to class

② Read typed lecture notes

③ Write practice programs

→ Post 10 ideas each week

# Char Freq

`s = " _____ "`      `s = s.toLowerCase();`  
count a's b's ... z's      lowercase letter  
`int[] freq = new int[26];`

```
for (int i = 0; i < s.length(); i++) {  
    char c = s.charAt(i);  
    if (c >= 'a' && c <= 'z') i++ i+=23 4  
        freq[c - 'a']++;  
         $\uparrow$   
        char to [0-25]  
    }  
}
```

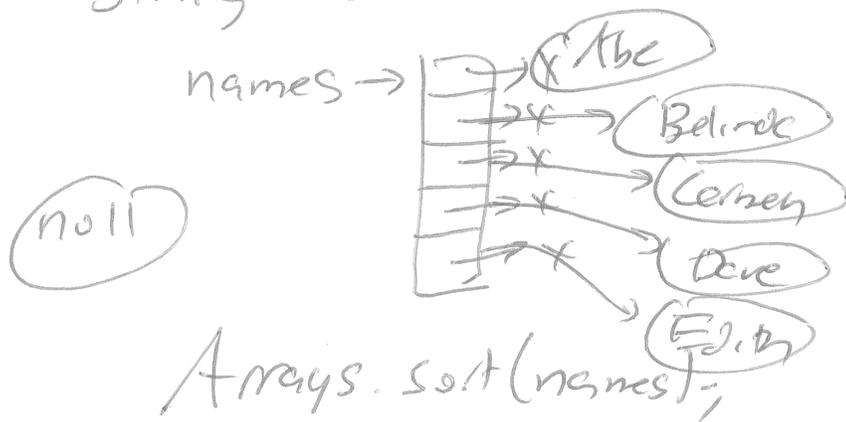
`s = "cabba"`

0	1	2
1	1	1
2	2	2

```
for (int i = 0; i < 26; i++)  
    System.out.print((char)(i + 'a'));
```

# Array of Strings

`String[] names = new String[n];`



`names[i] = stdin.next();`

Arrays class



~~int [ ] Scores~~

```
for (int i=0; i < numP; i++) {
    int nG = stdin.nextInt();
    scores [i] = new int [nG];
    // Read in scores
}
```

```
for (int i=0; i < scores.length; i++) {
    for (int j=0; j < scores [i].length; j++)
        S.o.p (scores [i] [j] + " ");
    S.o.pln ();
}
```

char [ ] [ ] board = new char [ 3 ] [ 3 ];



↑ # of arrays of references  
↑ length of each individual array