**SET-A**

**NAME: Section: ID:**

| **1** | **j=1** |
| --- | --- |
| **2** | **sum,y=0,0** |
| **3** | **p=0.0** |
| **4** | **k=3** |
| **5** | **test="a"** |
| **6** | **test2='#\*@'** |
| **7** | **while (j < 5):** |
| **8** | **y = j // 2** |
| **9** | **for i in range(k,0,-j):** |
| **10** | **p = (j + 9.0) // 2** |
| **11** | **if (p+sum)%2!=0:** |
| **12** | **test+="c"** |
| **13** | **sum+=sum\*j%5+y%i//2+int(p)** |
| **14** | **elif (p+i)%2!=0:** |
| **15** | **sum+=sum\*j%5+y//2%i+int(p)** |
| **16** | **test+=”b”** |
| **17** | **break** |
| **18** | **else:** |
| **19** | **sum+=1** |
| **20** | **test+=test2[0:(sum+i)%len(test2)]** |
| **21** | **y+=2** |
| **22** | **test+=str(sum%5)** |
| **23** | **print(test,end="!!!\n")** |
| **24** | **j+=1** |
| **25** | **print("Who said this wouldn't be fun, I love tracing")** |

| **OUTPUT** |
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**SET-A**

**Q1.** Write a Python program that takes o**ne number as input** from the user, this number indicates the number of string/strings to be taken as input. Then you have to find the **character with the highest number of occurrences combining all the strings** taken as input. \*\*(If you find **more than 1 characters** which shares the highest number of occurrences in this case consider the **first character** to be the target character.)\*\* Then check if the occurrence of that particular character is **even or odd**. If **odd** then you should print the **combining string from the first step as an output where all the occurrence of that common character is gone**. If the value is even then the output shall be the combined string in **reverse order and all the occurrence of that common character is gone.**

**\*\*You can’t use the built-in reverse() function or list\*\***

| **sample input** | **sample output** |
| --- | --- |
| **3**  **dog**  **cat**  **lion** | **o occurred 2 times**  **niltacgd** |
| **2**  **tiger**  **deer** | **e occurred 3 times**  **tigrdr** |

**Explanation**: The character “o” has the highest number of occurrences in the combined string “dogcatlion”.

**Explanation**: In the combined string “tigerdeer”, character “e” has the highest number of occurrences.

\*\*hint: identify the unique characters first\*

**SET-B**

**NAME: Section: ID:**

| **1** | **j=1** |
| --- | --- |
| **2** | **sum,y=0,0** |
| **3** | **p=0.0** |
| **4** | **k=3** |
| **5** | **test="a"** |
| **6** | **test2='@&$'** |
| **7** | **while (j < 8):** |
| **8** | **y = j // 2** |
| **9** | **for i in range(k,0,-j):** |
| **10** | **p = (j + 7.0) // 2** |
| **11** | **if (p+sum)%2!=0:** |
| **12** | **test+="c"** |
| **13** | **sum+=sum\*j%3+y%i//2+int(p)** |
| **14** | **break** |
| **15** | **elif (p+i)%2!=0:** |
| **16** | **sum+=sum\*j%3+y//2%i+int(p)** |
| **17** | **test+=”b”** |
| **18** | **else:** |
| **19** | **sum+=1** |
| **20** | **test+=test2[0:(sum+i)%len(test2)]** |
| **21** | **y+=2** |
| **22** | **test+=str(sum%3)** |
| **23** | **print(test)** |
| **24** | **j+=1** |
| **25** | **print("Who said this wouldn't be fun, I love tracing")** |

| **OUTPUT** |
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**SET-B**

**Q1. String Builder v2:**

You will be given one string as an input which is the result of the multiplication string of a certain string. Ie. **“wowowowowo”** is basically **“wo”\*5.** You have to find out the **core substring** and **how many times it was multiplied by to get to the input string** and then make a **pattern** like the output which will take the number of multiplication as the **row numbers**.

| **input** | **output** |
| --- | --- |
| **“abcdabcdabcdabcd”** | **The given string was a multiplied form of : abcd \*4**  **a**  **ab**  **abc**  **abcd** |
| **“CSE110CSE110CSE110”** | **The given string was a multiplied form of : CSE110 \*3**  **C**  **CS**  **CSE** |
| **“xyzwxyzwxyzwxyzwxyzwxyzw”** | **The given string was a multiplied form of : xyzw \*6**  **x**  **xy**  **xyz**  **xyzw**  **Can't print more lines as the string ran out.** |