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## Exceptions

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### Mock Assessment

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Condition:

- The sentence should contain only alphabets and space, else print "Invalid Sentence".

Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for classes, attributes, and methods as specified in the question description.
- Adhere to the code template, if provided
- Please do not use System.exit(0); to terminate the program.

Sample Input / Output 1

Enter the sentence

Bold action

Word Count: 2

action Bold

[Explanation: Since the number of words in a sentence is even, words are reversed.]

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### Sample Input / Output 1

Enter the sentence

**Bold action**

Word Count: 2

action Bold

[Explanation: Since the number of words in a sentence is even, words are reversed.]



### Sample Input / Output 2

Enter the sentence

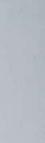
The Sun Shine



Word Count: 3

ehT nuS enihS

[Explanation: Since the number of words in a sentence is odd, the letters of each word are reversed.]



### Sample Input / Output 3



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[Explanation: Since the number of words in a sentence is even, words are reversed.]

**Sample Input / Output 2**

Enter the sentence

The Sun Shine

Word Count: 3

ehT nuS enihS

[Explanation: Since the number of words in a sentence is odd, the letters of each word are reversed.]

**Sample Input / Output 3**

Enter the sentence

The number 42 is often referred to as the answer to life, the universe, and everything

Invalid Sentence

◀ Post-Quiz - JDBC

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# Coding Activity: Your Name Is Mine

Description Code Editor Grading view

As global population exceeded 8 billion, Archer devised a strategy to manage growth, particularly focusing on marriages. Using a sophisticated name similarity metric, Archer evaluated compatibility based on how closely names aligned with minimal adjustments. This approach aimed to subtly guide marriage dynamics by suggesting matches where names were either identical or closely related, ensuring a nuanced yet effective influence on global demographics.

**Example**

1. A man with the name john is allowed to marry a woman with the name johanna, john is a sub-sequence of johanna, Hence made for each other.
2. A woman with the name Sathya is allowed to marry a man with the name SathyPrakash, Sathya is a sub-sequence of SathyPrakash
3. If both the man's and woman's names are same, then also, they are made for each other.

If the couple is made for each other, then find their compatibility value.

Compatibility value for two names is calculated by measuring the smallest number of changes needed in a name whether by inserting, deleting, or substituting single characters to transform a name into another name.

Example: john and johanna are made for each other

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**Conditions:**

- Names of the couples should be in the alphabet and can contain space otherwise, display "<name 1> is an invalid name" or "<name 2> is an invalid name" and terminate the program.
- If both names include a number or other special characters display "Both <name 1> and <name 2> are invalid names" and terminate the program.
- If <name 1> is a subsequence of <name 2> or vice versa, display "<name 1> and <name 2> are made for each other" and then find compatibility value.
- If <name 1> is not a sub-sequence of <name 2> or vice versa, display "Both <name 1> and <name 2> are not made for each other" and terminate the program.
- If <name 1> can be created by removing some components from <name 2> while maintaining the order of the remaining elements, then <name 2> is said to be a sub-sequence of <name 1> and display "<name 1> and <name 2> are made for each other" and then find compatibility value.

**Notes:**

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Adhere to the code template, if provided.
- Please do not use `System.exit(0);` to terminate the program.

Sample Input/Output 1

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### Sample Input/Output 1

Enter the man name

john

Enter the woman name

johanna

john and johanna are made for each other

Compatibility Value is 3

Explanation

Consider String johanna. So, 'j', 'o', 'h' and so on. If we remove 'a', 'n', 'a' of indices [4, 5, 6] or 'a', 'n', 'a' of indices [3, 5, 6] from String johanna, it becomes "john". Hence "john" is a subsequence of johanna.

Refer the Example above for compatibility value

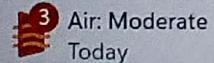
### Sample Input/Output 2:

Enter the man name

Kittin

Enter the woman name

Sittienk



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**Sample Input/Output 2:**

Enter the man name

Kittin

Enter the woman name

Sittienk

Sittienk and Kittin are made for each other

Compatibility Value is 3

Explanation: 

for Compatibility value

"Sittienk" has 8 characters.

"Kittin" has 6 characters.

"Sittienk" string length is greater than "Kittin"

so, for "Sittienk" to be converted to "Kittin" 3 edits are needed

Kittin- Sittienk

(The 'S' in Sittienk is replaced by 'K' in "Kittin") -----> 1

Kittin- Kittienk

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Windows File Explorer

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"Sittienk" string length is greater than "Kittin"

so, for "Sittienk" to be converted to "Kittin" 3 edits are needed

Kittin- Sittienk

(The 'S' in Sittienk is replaced by 'K' in "Kittin") -----> 1

Kittin- Kittienk

(The 'e' of "Kittienk" deleted by comparing it with "Kittin") -----> 2

Kittin- Kittink

(The 'k' of "Kittink" deleted by comparing it with "Kittin") -----> 3

Kittin- Kittik

#### Sample Input/Output 3:

Enter the man name

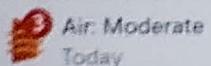
Ira

Enter the woman name

ira

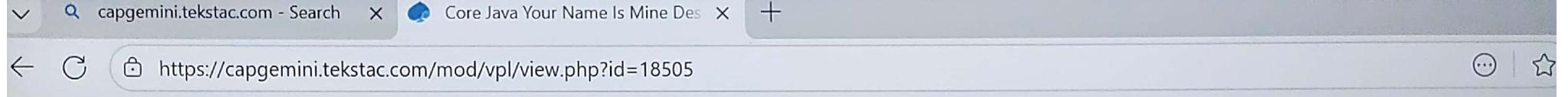
Ira and ira are made for each other

Compatibility Value is 0



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### Sample Input/Output 3:

Enter the man name

Ira

Enter the woman name

ira

Ira and ira are made for each other

Compatibility Value is 0

Explanation

Both the man's and woman's names are the same.

### Sample Input/Output 4:

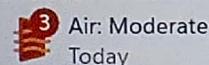
Enter the man name

kayla kirov

Enter the woman name

Jayla jacob

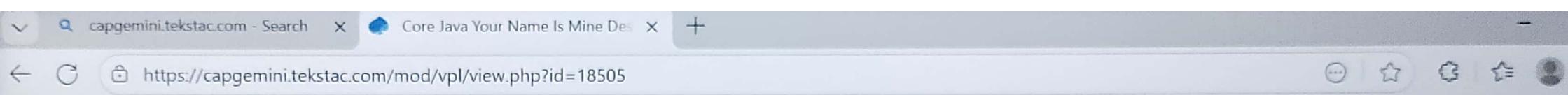
kayla kirov and Jayla jacob are not made for each other



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#### Sample Input/Output 4:

Enter the man name

kayla kirov

Enter the woman name

Jayla jacob

kayla kirov and Jayla jacob are not made for each other

#### Explanation

Jayla jacob cannot be attained from kayla kirov as removing any character from kayla kirov would make the string length smaller than Jayla jacob, also there is no 'j' in kayla kirov. Similar reasoning can be applied to see why kayla kirov can't be attained from Jayla jacob.

#### Sample Input/Output 5:

Enter the man name

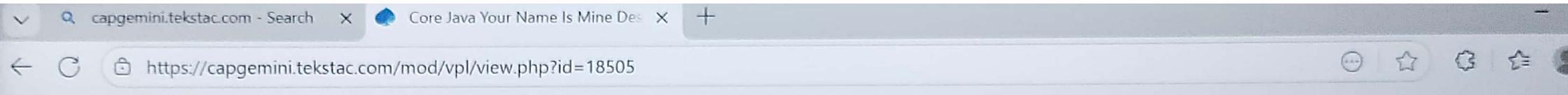
surya

Enter the woman name

jo123

jo123 is an invalid name





also there is no 'j' in kayla kirov. Similar reasoning can be applied to see why kayla kirov can't be attained from Jayla jacob.

#### Sample Input/Output 5:

Enter the man name

surya

Enter the woman name

jo123

jo123 is an invalid name



#### Sample Input/Output 6:

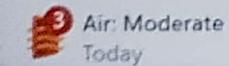
Enter the man name

@jith

Enter the woman name

shalini

@jith is an invalid name



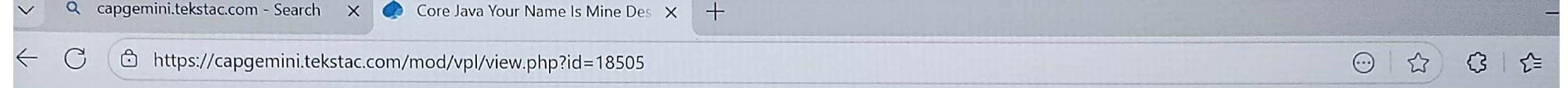
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### Sample Input/Output 6:

Enter the man name

@jith

Enter the woman name

shalini

@jith is an invalid name

### Sample Input/Output 7:

Enter the man name

vijay67

Enter the woman name

\$angee

Both vijay67 and \$angee are invalid names

Word Wand - A Language Model

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Password Gen

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# Coding Activity: Password Generation

Description

Code Editor

Grading view

"TechXam" is a free online learning platform which offers different courses and assessments to the students. Students can login to the platform using their username and password generated at the time of registration. The password for all the students will be generated by the TechXam platform at the time of registration based on the valid username given by the students. Help TechXam in password generation by developing a java application.

#### Requirements:

##### 1. UserName Validation:

- The username should be of length 8, otherwise print "<username> is an invalid username" and terminate the application.
- The first 4 letters of the username should be alphabets in uppercase, 5<sup>th</sup> character should be '@' and the last 3 digits should be the selected course id that lies between 101 to 115 (both inclusive).
- The username should satisfy all the above condition if not print "<username > is an invalid username" and terminate the application.



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## 2. Password Generation:

"TECH\_" followed by concatenating the sum of ascii values of first 4 characters of username after converting it to lowercase with the last 2 digits of username.

Example: Assume the username to be MICH@110

Explanation: Here "TECH\_" will be common for all generated passwords, 417 is the sum of ascii values of all characters in mich(lowercase) i.e., m-109, i-105, c-99, h-104. So total of 417, 10 is the last 2 digits of course id.

Password: TECH\_41710

### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for classes, attributes, and methods as specified in the question description.
- Adhere to the code template, if provided

Don't use System.exit(0) to terminate the program.

### Sample Input 1:

Enter the username



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### Sample Input 1:

Enter the username

LAJA@112

### Sample Output 1:

Password: TECH\_40812

### Sample Input 2:

Enter the username

lijd@113

## Sample Output 2:

lijd@113 is an invalid username

**Explanation:** First four letters are not in uppercase

### Sample Input 3:

Enter the username





**Sample Input 3:**

Enter the username

ASHI@11



**Sample Output 3:**

ASHI@11 is an invalid username

**Explanation:** course id does not lie between 101 to 115

**Sample Input 4:**

Enter the username



DEEP&102

**Sample Output 4:**

DEEP&102 is an invalid username

**Explanation:** fifth character should be '@' no other characters.



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