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package com.itbulls.learnit.javacore.methods.hw;

import java.util.Arrays;
import java.util.Scanner;

public class FilterStringArray {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.print("Please, enter any words separated by space: ");
        String userInput = sc.nextLine();
        System.out.print("Please, enter mininum word length to filter words: ");
        int minLength = sc.nextInt();

        String[] words = userInput.split("\\s+");
        String[] filteredWords = filterWordsByLength(minLength, words);
        System.out.println(Arrays.toString(filteredWords));
    }

    public static String[] filterWordsByLength(int minLength, String[] words) {

        String[] filteredArray = new String[words.length];
        for (int i = 0; i < words.length; i++) {
            if (words[i].length() >= minLength) {
                filteredArray[i] = words[i];
            }
        }

        filteredArray = filterNulls(filteredArray);
    }

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        return filteredArray;
    }
}
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```
private static String[] filterNulls(String[] arr) {
    int newArraySize = 0;
    for (String word : arr) {
        if (word != null) {
            newArraySize++;
        }
    }
}
```

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String[] filteredArray = new String[newArraySize];
```

```
int filteredArrayIndex = 0;
for (String word : arr) {
    if (word != null) {
        filteredArray[filteredArrayIndex++] = word;
    }
}
```

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    return filteredArray;
}
}
```

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//===== SOLUTION WITH STREAM API
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```
public static String[] filterWordsByLengthStreamApi(int minLength, String[] words) {
    return Arrays.stream(words)
```

```
.filter(s -> s.length() >= minLength)  
.toArray(String[]::new);
```

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}
```

```
}
```