

# Output streams → Convert to char array

Medium ⏱ 5 minutes ?

Imagine that we have a typing machine that accepts only one letter at a time for writing, but we want to write an array of words instead.

```

1 public class LetterPrinter {
2     public void write(char letter) {
3         //implementation
4     }
5 }

```

To adapt an input to the `LetterPrinter` we need to write a converter from `String[]` to `char[]` and pass letters one by one to `LetterPrinter` instance:

```

1 public void writeWords(String[] words) throws IOException {
2     LetterPrinter printer = new LetterPrinter();
3
4     char[] letters = convert(words); // converting method
5     for (char letter : letters) {
6         printer.write(letter);
7     }
8 }

```

Implement the `convert` method that converts `String[]` to `char[]`.

Hint: use `CharArrayWriter`.

Example:


Input: `["This", " ", "is", " ", "a", " ", "test"]`


Output: `["T", "h", "i", "s", " ", "i", "s", " ", "a", " ", "t", "e", "s", "t"]`

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HINT by  [Viewed hints](#)

Use `String.join`

 This is the last hint available for this problem! Please post your own hint after completing the problem, future learners will thank you.

 Write a program

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```

1 import java.io.*;
2
3 class Converter {
4     public static char[] convert(String[] words) throws IOException {
5         // implement the method
6
7         StringBuilder sb = new StringBuilder();
8         CharArrayWriter caw = new CharArrayWriter();
9
10        for (int i = 0; i < words.length; i++) {
11            sb.append(words[i]);
12        }
13
14        String out = sb.toString();
15
16        caw.write(out);
17        char[] output = caw.toCharArray();
18        caw.close();
19        return output;
20    }

```

Java

```
21 }  
22
```

✓ **Correct, but can be improved.**

Seems like you've got all the theory down, way to go!

FEEDBACK:

Code quality

**Awesome**



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```
1 import java.io.*;  
2  
3 class Converter {  
4     public static char[] convert(String[] words) throws IOException {  
5         // implement the method  
6  
7         StringBuilder sb = new StringBuilder();  
8         CharArrayWriter caw = new CharArrayWriter();  
9  
10        for (int i = 0; i < words.length; i++) {  
11            sb.append(words[i]);  
12        }  
13  
14        String out = sb.toString();  
15  
16        caw.write(out);  
17        char[] output = caw.toCharArray();  
18        caw.close();  
19        return output;  
20    }  
21 }  
22
```

Java

✓ **Correct, but can be improved.**

FEEDBACK:

Code quality

**Awesome**



Issues: Error-prone 0 Code style 0 Code complexity 0 Best practice 1

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SA [Sylvain Autran](#) 3 days ago

Java

```
1 import java.io.CharArrayWriter;
2 import java.io.IOException;
3
4 class Converter {
5     public static char[] convert(String[] words) throws IOException {
6         CharArrayWriter writer = new CharArrayWriter();
7         for (String word : words) {
8             writer.append(word);
9         }
10
11     return writer.toCharArray();
12 }
13 }
```

✓ Correct.

FEEDBACK:

Code quality

**Awesome**



Issues: Error-prone 0 Code style 0 Code complexity 0 Best practice 0

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About code quality and issues

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[Mohammed Sharaf Eddeen](#) 3 days ago

Java

```
1 import java.io.CharArrayWriter;
2 import java.io.IOException;
3
4 class Converter {
5     public static char[] convert(String[] words) throws IOException {
6         // implement the method
7         CharArrayWriter w = new CharArrayWriter();
8         for (var word : words) {
9             w.append(word);
10        }
11     return w.toCharArray();
12 }
13 }
```

✓ Correct.

FEEDBACK:

Code quality

Awesome  
🚀🚀🚀🚀

Issues: Error-prone 0 Code style 0 Code complexity 0 Best practice 0

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c **Conman** 16 days ago

Java

```
1 import java.io.IOException;
2 import java.io.CharArrayWriter;
3
4 class Converter {
5     public static char[] convert(String[] words) throws IOException {
6         CharArrayWriter charWriter = new CharArrayWriter();
7         String wordsPlus = "";
8         for (String word : words) {
9             wordsPlus += word;
10        }
11        charWriter.write(wordsPlus);
12        char[] chars1 = charWriter.toCharArray();
13        charWriter.close();
14        return chars1;
15    }
16 }
17
```

✓ Correct.

FEEDBACK:

Code quality

Awesome



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👤 **Ben Humburg** 19 days ago

Java

```
1 import java.io.IOException;
2 import java.io.*;
3
4 class Converter {
5     public static char[] convert(String[] words) throws IOException {
6         // implement the method
7         CharArrayWriter cAW = new CharArrayWriter();
8         for (String str : words) {
9             cAW.write(str);
10        }
11        return cAW.toCharArray();
12    }
13 }
14
```

✓ Correct.

FEEDBACK:


Code quality

**Awesome**



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