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## Questions

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### final references, immutable objects

1/1 point (graded)

Consider the following code, executed in order:

```
char vowel0 = 'a';
final char vowel1 = vowel0;

String vowel2 = vowel1 + "eiou";
final String vowel3 = vowel2;

char[] vowel4 = new char[] { vowel0, 'e', 'i', 'o', 'u' };
final char[] vowel5 = vowel4;
```

Which of the following statements are legal Java (i.e. produce no compiler error if placed after the code above)? Check all that apply.

- ☒ vowel0 = vowel1
- ☐ vowel1 = vowel0
- ☒ vowel2 = vowel3
- ☐ vowel3 = vowel2
- ☐ vowel2[0] = 'x'
- ☐ vowel3[0] = 'x'
- ☒ vowel4 = vowel5
- ☐ vowel5 = vowel4
- ☒ vowel4[0] = 'x'
- ☒ vowel5[0] = 'x'



### Explanation

`vowel1` , `vowel3` , and `vowel5` are `final` , so they cannot be reassigned.  
`vowel2` and `vowel3` are strings, which don't provide the `[]` indexing operation like arrays do. You have to use the `charAt()` method instead.  
Even though `vowel5` is `final` , it points to a mutable array, so `vowel5[0]` can be reassigned.

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