

Study Guide - Collections

A group of values for a single variable

Array declaration syntax:

```
<type>[] <identifier> = new <type>[<size>];
```

Array usage syntax:

```
<identifier>[<index>]
```

Example #1

<pre>string[] passwords; passwords = new string[5]; passwords[0] = "one"; passwords[1] = "two"; passwords[2] = "three"; passwords[3] = "four"; passwords[4] = "five";</pre>	<table border="1"><thead><tr><th colspan="2">passwords</th></tr></thead><tbody><tr><td>0</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></tbody></table>	passwords		0		1		2		3		4	
passwords													
0													
1													
2													
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Example #2

<pre>int[] values = new int[6]; for (int i = 0 ; i < 6 ; i++) { values[i] = i + 1; } int answer = 0; for (int i = 0 ; i < 6 ; i++) { answer += values[i]; }</pre>	<table border="1"><thead><tr><th colspan="2">values</th></tr></thead><tbody><tr><td>0</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr></tbody></table>	values		0		1		2		3		4		5	
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