Subject: Basic Array Subscripting Question Posted by rjp23 on Thu, 31 May 2012 09:38:59 GMT

View Forum Message <> Reply to Message

This is very basic stuff but for some reason it's leaving me stumped.

I always thought that:

```
array[412:413, 18:19] was equivalent to array[[412,413], [18,19]]
```

but the first returns a 2,2 array (which I want) whilst the second only returns a 2 element array.

```
<Expression> DOUBLE = Array[2, 2]
<Expression> DOUBLE = Array[2]
```

Any idea what I'm doing wrong?

Subject: Re: Basic Array Subscripting Question Posted by Lajos Foldy on Fri, 01 Jun 2012 14:58:15 GMT View Forum Message <> Reply to Message

On Thursday, May 31, 2012 11:38:59 AM UTC+2, Rob wrote:

> This is very basic stuff but for some reason it's leaving me stumped.

```
> I always thought that:
```

>

>

> array[412:413, 18:19] was equivalent to array[[412,413], [18,19]]

> but the first returns a 2,2 array (which I want) whilst the second

but the first returns a 2,2 array (which I want) whilst the secon
 only returns a 2 element array

> only returns a 2 element array.

> <Expression> DOUBLE = Array[2, 2] > <Expression> DOUBLE = Array[2]

> Any idea what I'm doing wrong?

This is documented in 'Combining Array Subscripts':

When combining two subscript arrays, each element of the first subscript array is combined with the corresponding element of the second subscript array. The two subscript arrays must have the same number of elements. The resulting subscript array has the same number of elements as its constituents. For example, the expression A[[1, 3], [5, 9]] yields the elements A[1,5] and A[3,9].

regards, Lajos