
Subject: Index should be out of range, right?

Posted by [T.H.](#) on Wed, 31 Dec 2008 19:42:18 GMT

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2008 is ending in confusion for me. Here is an example of why:

```
IDL> x=intarr(10,10)
```

```
IDL> y=indgen(15)
```

```
IDL> x[y,y]=1
```

```
IDL> print, x
```

```
    1  0  0  0  0  0  0  0
0    0
    0  1  0  0  0  0  0  0
0    0
    0  0  1  0  0  0  0  0
0    0
    0  0  0  1  0  0  0  0
0    0
    0  0  0  0  1  0  0  0
0    0
    0  0  0  0  0  1  0  0
0    0
    0  0  0  0  0  0  1  0
0    0
    0  0  0  0  0  0  0  1
0    0
    0  0  0  0  0  0  0  0
1    0
    0  0  0  0  0  0  0  0
0    1
```

This is confusing because some values of y are greater than the dimensions of the array that they are being used to access and in fact

```
IDL> x[y[10],y[10]]=1
```

```
% Attempt to subscript X with <INT    (    10)> is out of range.
```

```
% Execution halted at: $MAIN$
```

this fails. Why do I not get an "out of range error" in the first case?

Thanks for your help.
