Subject: Return statement must have 1 value?
Posted by D.Kennedy on Tue, 21 Oct 1997 07:00:00 GMT

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In the course of some quick and dirty data reduction I've hit a weird
bug with the RETURN keyword. Its really confusing me (as well as stopping
me from progressing with the work!). Help appreciated.

It says:
 return answer
       ^
% Return statement in functions must have 1 value.

Here's some code, no comments on the algorithm please, I know there must
be better ways of doing this (calculating the FWHM of a gaussian); the
input is a 1-D array.

```
function calc_fwhm2, gaussian
  x1 = 0 & x2 = 0
  maximum      = max(gaussian)
  half_maximum = max(gaussian)/2
  midpoint     = where(gaussian EQ maximum)

  i=0
  while gaussian(i) LT half_maximum DO i=i+1
  x1=i

  i=midpoint
  while gaussian(i) GT half_maximum DO i=i+1
  x2=i

  answer = x2 - x1
  return answer

end
```

Replies by email appreciated; no excuses, I'm just lazy about checking
groups.

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Email: D.Kennedy@Queens-Belfast.ac.uk | URL: http://star.pst.qub.ac.uk/~dcjk/
        My .sig was so clever that it actually escaped!