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**Exercise 1 (Extracting matrix entries)**

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Generate a  $5 \times 5$  matrix  $A$  using the command `magic`, and determine the following expressions:

`A(:,4)`      `A(2,:)`  
`A(2:4,2:4)`   `A(3,5)`  
`A(1:2:5,:)`   `A([1,5],[1,5])`