

Write a function that finds the most relevant snippet for a document and highlights all the query terms that appear in the snippet (like highlights on a search page). It is up to you to define what constitutes a good snippet and how big the snippets will be.

Indicate highlights by surrounding the text to be highlighted with `[[HIGHLIGHT]]... [[ENDHIGHLIGHT]]`. One highlighting example might be:

```
>>> highlight_doc( "I like fish. Little star's deep dish  
pizza sure is fantastic. Dogs are funny.", "deep dish  
pizza")  
  
"Little star's [[HIGHLIGHT]]deep dish pizza[[ENDHIGHLIGHT]]  
sure is fantastic."  
  
def highlight_doc(doc, query): """  
  
Args: doc - Document to be highlighted (string) query - The  
search query (string)  
  
Returns: The the most relevant snippet with the query terms  
highlighted (string)  
  
"""
```