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1  """
2  CS241 Team Activity 2 - Stretch
3  Written by Chad Macbeth
4  """
5
6  ### Prompt the user to provide a filename
7  def prompt_filename():
8      filename = input("Enter filename: ")
9      return filename
10
11  ### Prompt the user to provide a target word to search
12  def prompt_target():
13      target = input("Enter target word to search: ")
14      return target
15
16  ### Parse each word from the file looking for the target word
17  def parse_file(filename, target):
18      count = 0
19      with open(filename, "r") as file_in:
20          for line in file_in:      # Read each line in the file
21              words = line.split() # Default are spaces
22              for word in words:    # Read each word in the line
23                  if word.upper().find(target.upper()) != -1: # Look for substrings in
24                      count += 1    uppercase
25      return count
26
27  ### Driver
28  def main():
29      filename = prompt_filename()
30      target = prompt_target()
31      print("Opening file {}".format(filename))
32      count = parse_file(filename, target)
33      print("The word {} occurs {} times in this file." .format(target, count))
34
35  if __name__ == "__main__":
36      main()
37
38
39

```