



## Question

A programmer has been asked to write a program which will ask the user to enter 10 names and will write any entered names that start with the letter 'S', onto a new line in a text file.

Write a program, in pseudocode, which contains the logic needed to solve the problem above.

## Answer



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## Answer

\*\*\*There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!\*\*\*

LOGIC:

- Open a text file in write mode with file handler
- Create a FOR loop which will iterate 10 times
- Ask the user to enter a name
- If the first character of the name is an 'S', use the write() method to write the inputted name to the file, joining ' ' to the end, so the cursor is moved to the next line of the text file.
- Use the close() method to close the file once the loop has ended.

EXAMPLE ALGORITHM:

```
newfile = open("NewFile.txt", "w")  
for counter = 0 – 10  
    name = input("Enter a name")  
    if name[0] == 'S'  
        newfile.writeLine(name)  
    endif  
next counter  
newfile.close()
```