

Question #80493

Write a function `matched(s)` that takes as input a string `s` and checks if the brackets "(" and ")" in `s` are matched: that is, every "(" has a matching ")" after it and every ")" has a matching "(" before it. Your function should ignore all other symbols that appear in `s`. Your function should return `True` if `s` has matched brackets and `False` if it does not.

Answer:

The function is as follows:

```
def matched(s):
    brackets_counter = 0
    i = 0
    while brackets_counter >= 0 and i < len(s):
        if s[i] == '(':
            brackets_counter += 1
        elif s[i] == ')':
            brackets_counter -= 1
        i += 1
    if brackets_counter == 0:
        return True
    else:
        return False
```

The screenshot below shows how the function work.

```
>>> from matched import matched
>>> matched("zb%78")
True
>>> matched("(7)(a")
False
>>> matched("a)*(?)")
False
>>> matched("((jkl)78(A)&l(8(dd(FJI:),):)?)")
True
```