Problem 4: Implement ATOI/STRSTR

```python
def atoi(s):
    s = s.strip()

    if not s:
        return 0

    sign = -1 if s[0] == '-' else 1

    if s[0] in ('-', '+'):
        s = s[1:]

    result = 0
    for char in s:
        if not char.isdigit():
            break
        result = result * 10 + int(char)

    return sign * result


def strstr(haystack, needle):
    if not needle:
        return 0

    for i in range(len(haystack) - len(needle) + 1):
```
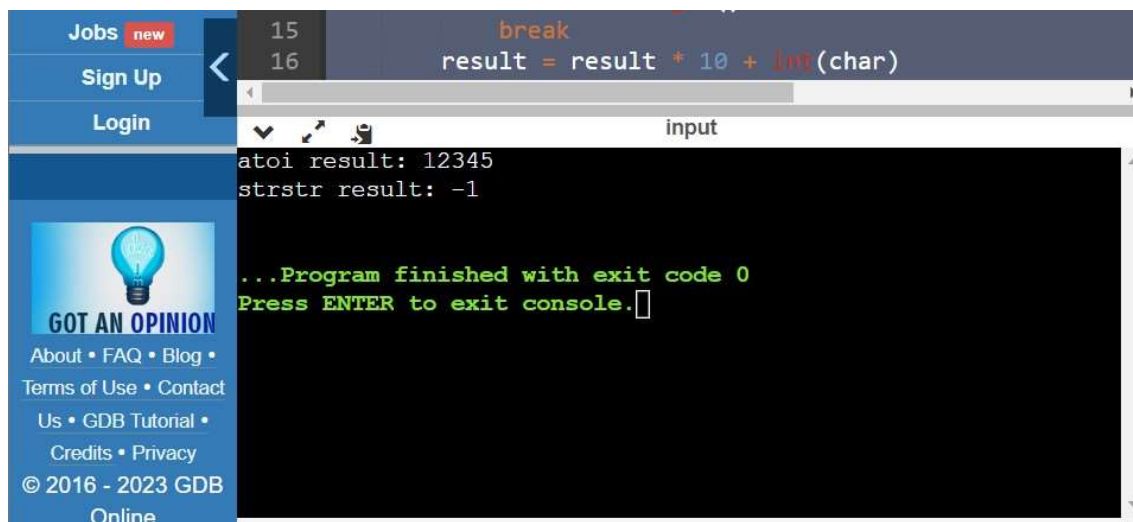
```
        j = 0

        while j < len(needle) and haystack[i+j] == needle[j]:

            j += 1

        if j == len(needle):

            return i


    return -1


str1 = "12345"

str2 = "567"

result1 = atoi(str1)

result2 = strstr(str1, str2)
print("atoi result:", result1)

print("strstr result:", result2)
```

```
15          break
16          result = result * 10 + int(char)
```

input

```
atoi result: 12345
strstr result: -1


...Program finished with exit code 0
Press ENTER to exit console.
```