Programa expresión regular

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```python
import re
def regex(): #A                          def regex(): #B
    regex = re.compiler(                     regex = re.compiler(
       r"^(a|b)*(bb)(a|b)*$"                    r"(^b(a|b)*$)|(^(a|b)*b$)"
    )                                        )

    result= input_file.readline().strip()   result=input_file.readline().strip()
    valid=bool(regex.search(result)          valid=bool(regex.search(result))
    return valid, result                     return valid, result


if __name__ == "__main__":
    input_file= open(0)
    while True:
        valid, result = regex()
        if result == "":
            break
        if valid:
            print(f"Cadena válida {result}")
        else:
            print("Cadena inválida")
```