

day 2 3.0.py - C:/Users/nandh/AppData/Local/Programs/Python/Python311/day 2 3.0.py (3.11.1)

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```
def isNumber(s):
    valid_patterns = ('xd','x.d','xd.','xd.d','xsd','xsd.',
                      'xsd.d','xsded','x.ded','xd.ed','xd.ded',
                      'xsded','xsd.ed','xsd.ded','xsded','x.desd',
                      'xd.esd','xd.desd','xsded','xsd.esd',
                      'xsd.desd','xs.d','xs.ded','xs.desd'
                      )
    pattern = 'x'
    for ch in s:
        if ch == '+' or ch == '-': pattern += 's'
        elif ch == 'e' or ch == 'E': pattern += 'e'
        elif ch.isdigit():
            if pattern[-1] != 'd': pattern += 'd'
            elif ch == '.': pattern += '.'
        else: return False
    return pattern in valid_patterns
str1=input("String=")
print(isNumber(str1))
```

IDLE Shell 3.11.1

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```
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/nandh/AppData/Local/Programs/Python/Python311/day 2 3.0.py =
String=0
True
>>>
```

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