Question 2 - In a class of 18 students, assume marks distribution in an exam are as follows. Let the roll numbers start with CSE20D01 and all the odd roll numbers secure marks as follows: 25+((i+7)%10) and even roll numbers: 25+((i+8)%10). Develop an application that sets up the data and calculate the mean and median for the marks obtained using the platform support.

```
import numpy as np
def generate marks(n):
    marks = \{\}
    for i in range(1, n+1):
        marks[f"CSE20D{i:02d}"] = 25+(i+8)%10 if i % 2 == 0 else 25+(i+7)%10
    return marks
data = generate marks(18)
print("{:<10} {:<5}".format('Roll number', 'Marks'))</pre>
for key, value in data.items():
    print("{:<10} {:<5}".format(key, value))</pre>
Roll number Marks
CSE20D01
         33
         25
CSE20D02
         25
CSE20D03
CSE20D04
          27
CSE20D05
          27
CSE20D06 29
CSE20D07
          29
CSE20D08 31
CSE20D09 31
CSE20D10 33
CSE20D11 33
CSE20D12 25
CSE20D13 25
CSE20D14 27
         27
CSE20D15
         29
CSE20D16
          29
CSE20D17
CSE20D18
         31
marks = [*data.values()]
print(f"Mean of the marks = {np.mean(marks)}")
print(f"Median of the marks = {np.median(marks)}")
Mean of the marks = 28.66666666666668
Median of the marks = 29.0
```

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