

machine_problems/student.py

```
1 class Student:
2     def __init__(self, stuID):
3         self._stuID = stuID
4         self._name = ["", ""]
5         self._testScores = []
6         self._avg = 0.0
7
8     def getID(self):
9         return self._stuID
10
11    def getName(self):
12        return self._name
13
14    def getTestScores(self):
15        return self._testScores
16
17    def getAvg(self):
18        return self._avg
19
20    def setName(self, firstName, lastName):
21        self._name = [firstName, lastName]
22
23    def addTest(self, testScore):
24        self._testScores.append(testScore)
25        self._calcAvg()
26
27    def _calcAvg(self):
28        self._avg = sum(self._testScores) / len(self._testScores)
29
30    def __str__(self):
31        result = f"Student: {self._stuID} {self._name[0]} {self._name[1]}"
32        result += "\nTest Scores: "
33        for test in self._testScores:
34            result += f"{str(test)} "
35        result += f"\nTest Average: {self.getAvg():.2f}\n"
36        return result
```