ข้อ 6

Bring Down The Class Average

Published by **Deep Xavier** in **JavaScript**

arrays math numbers

What is the percentage you can score on a test, which **singlehandedly** brings down the class average by **5%?** Given an array of your classmates' scores, create a function that returns the answer. Round to the nearest percent.

Examples

```
takeDownAverage(["95%", "83%", "90%", "87%", "88%", "93%"]) → "54%"

takeDownAverage(["10%"]) → "0%"

takeDownAverage(["53%", "79%"]) → "51%"
```

Code

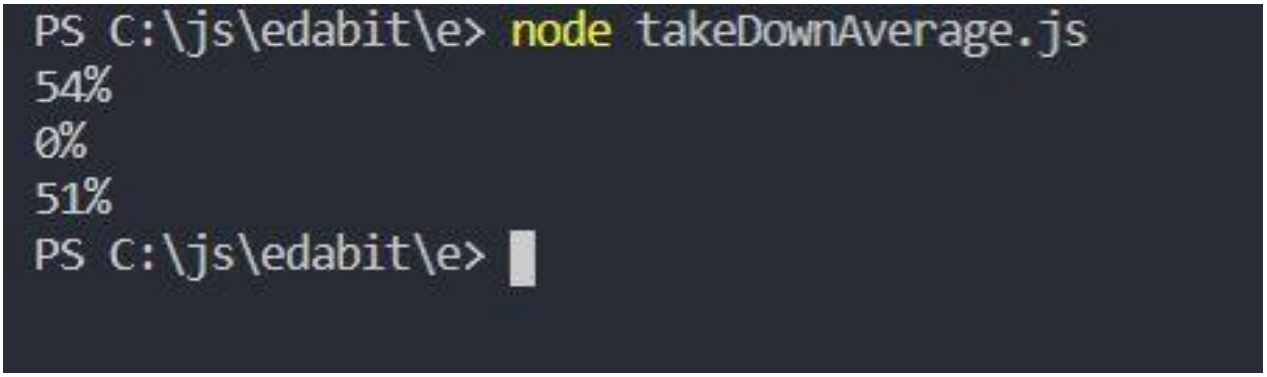
JS takeDownAverage.js > takeDownAverage

```
const takeDownAverage = (arr) => {
  let sum1 = arr.reduce((acc, cv) => acc + parseInt(cv), 0);
  let ct1 = arr.length;
  let avg1 = sum1 / ct1;

  let ct2 = ct1 + 1;
  let avg2 = avg1 - 5;
  let sum2 = avg2 * ct2;

  return `${parseInt(Math.round(sum2 - sum1))}%`;
};
let [actualParam, expectedParam] = [
  [
    ['95%', '83%', '90%', '87%', '88%', '93%'],
    ['10%'],
    ['74%', '76%', '58%', '50%', '99%', '70%'],
    ['64%', '95%', '89%', '69%', '96%', '59%', '84%', '93%'],
    ['77%', '77%'],
    ['73%', '98%'],
    ['96%', '87%', '66%'],
    ['94%', '79%', '54%', '62%'],
    ['56%', '50%'],
    ['100%', '51%', '98%'],
    ['85%', '74%', '61%', '70%', '56%', '67%', '53%', '53%'],
    ['67%', '91%', '93%', '87%', '81%', '79%', '88%', '69%', '92%', '69%'],
    ['75%', '100%'],
  ],[
    '54%','0%','36%','36%','62%','71%','63%','47%','38%','63%','20%','27%','73%',
  ],
];
  console.log(takeDownAverage(["95%", "83%", "90%", "87%", "88%", "93%"]));
  console.log(takeDownAverage(["10%"]));
  console.log(takeDownAverage(["53%", "79%"]));
```

Run


PS C:\js\edabit\e> node takeDownAverage.js
54%
0%
51%
PS C:\js\edabit\e>