## "FRAPPY" <br> \{Free Response AP Problem...Yay! \}

The following problem is taken from an actual Advanced Placement Statistics Examination. Your task is to generate a complete, concise statistical response in 15 minutes. You will be graded based on the AP rubric and will earn a score of $0-4$. After grading, keep this problem in your binder for your AP Exam preparation.

Five hundred randomly selected middle-aged men and five hundred randomly selected young adult men were rated on a scale from I to 10 on their physical flexibility, with 10 being the most flexible. Their ratings appear in the frequency table below. For example, I7 middle-aged men had a flexibility rating of I.

| Physical Flexibility Rating | Frequency of <br> Middle-Aged Men | Frequency of <br> Young Adult Men |
| :---: | :---: | :---: |
| 1 | 17 | 4 |
| 2 | 31 | 17 |
| 3 | 49 | 29 |
| 4 | 71 | 39 |
| 5 | 70 | 54 |
| 6 | 87 | 69 |
| 7 | 78 | 83 |
| 8 | 54 | 93 |
| 9 | 34 | 73 |
| 10 | 9 | 39 |

Scoring:
(a) Display these data graphically so that the flexibility of middle-aged men and young adult men can be easily compared.

## E P I

(b) Based on an examination of your graphical display, write a few sentences comparing the flexibility of middle-aged men with the flexibility of young adult men.

## E P I

