Activity 5: Assignment 1

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August 2, 2016

1. I would use a for loop as this will take less lines. Also I generally use for loops for problems that involve numbers and while loops for user input or similar. Since the problem involves mainly numbers, I would use a for loop.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Loop iteration  (1st, 2nd, etc) | Control variable | Condition | Variables of interest | | |
| myNum | myNum >= 0 | mySum |  |  |
| 1st - beg | 11 | 11 >= 0 | 0 |  |  |
| 1st - end | 10 |  | 50 |  |  |
| 2nd - beg | 10 | 10 >= 0 | 50 |  |  |
| 2nd - end | 9 |  | 95 |  |  |
| 3rd - beg | 9 | 9 >= 0 | 95 |  |  |
| 3rd – end | 8 |  | 135 |  |  |
| 4th – beg | 8 | 8 >= 0 | 135 |  |  |
| 4th – end | 7 |  | 170 |  |  |
| 5th – beg | 7 | 7 >= 0 | 170 |  |  |
| 5th - end | 6 |  | 200 |  |  |
| 6th – beg | 6 | 6 >= 0 | 200 |  |  |
| 6th - end | 5 |  | 225 |  |  |
| 7th - beg | 5 | 5 >= 0 | 225 |  |  |
| 7th – end | 4 |  | 245 |  |  |
| 8th - beg | 4 | 4 >= 0 | 245 |  |  |
| 8th – end | 3 |  | 260 |  |  |
| 9th – beg | 3 | 3 >= 0 | 260 |  |  |
| 9th - end | 2 | 2 >= 0 | 270 |  |  |
| 10th - beg | 2 |  | 270 |  |  |
| 10th - end | 1 | 1 >= 0 | 275 |  |  |
| 11th - beg | 1 |  | 275 |  |  |
| 11th - end | 0 | 0 >= 0 | 275 |  |  |
| 12th - beg | 0 |  | 0 |  |  |
| 12th - end | -1 | (-1 >= 0) False | 270 |  |  |