

CS118

PS1 Determine the Main Task SOLUTION

NOTE: These solutions are only one possibility. In this first part, the student should be attempting to identify the task at hand and phrase the problem in English considering side effects where appropriate.

e.g: $1 + (2 * 3)$ Main Task: Determine the mathematical result of adding 1 to the product of 2 and 3

1. floor(-2.5)

Main Task: Determine the largest integer which is less than -2.5

2. round(3.1*5.4 + 2.1)

Main Task: Determine the nearest integer of the sum of 2.1 and: the product of 3.1 and 5.4

3. max(1, 2, 5, 4, -5)

Main Task: Determine the largest value amongst the numbers 1, 2, 5, 4, and -5.

e.g. Paint the wall Apply paint to the wall to achieve uniform appearance with minimal waste and minimal application to items other than the wall.

4. Lock the door

Main Task: Secure the door such that only authorized opening of the door can easily occur.

5. Set the clock

Main Task: Configure the clock display to reflect the desired time.

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