CSCE 221
Checkpoint 8 Revision

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I.

C)

The calculation was made in haste and an incorrect closed form was solved. Using the previously derived summation;

$$S_N = \Sigma_1^N (2n - 1)^2 \tag{1}$$

counting upwards

$$1, 10, 35, 84, 165, 286, 455, 680, 969, 1330, 1771, 2300$$

$$\boxed{\therefore 12}$$