

$$for(i>0 to n-1)$$

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$$for(i>0 \rightarrow i) 0; \leq i$$

$$1 - 2 - 1 \rightarrow i = 2$$
 $1 - 3 - 3 = 3$

[(7)]

$$19 \rightarrow 1^2 + 9^2 = 82$$

$$81 > 8^2 + 2^2 = 68$$

$$68 \rightarrow 6^2 + 8^2 = 100$$

$$100 \rightarrow 1^2 + 0^2 + 0^2 = 100$$

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$$(29) \rightarrow 2^{2} + 9^{2} = 85$$

$$85 \rightarrow 8^{2} + 5^{2} = 89$$

$$89 \rightarrow 8^{2} + 9^{2} = 145$$

$$145 \rightarrow 1^{2} + 4^{2} + 5^{2} = 42$$

$$42 \rightarrow 4^{2} + 2^{2} = 20$$

$$|6 \rightarrow 1^{2} + 6^{2} = 37$$

$$37 \rightarrow 3^{2} + 7^{2} = 58$$

$$58 \rightarrow 5^{2} + 8^{2} = 89$$

$$89 \rightarrow 8^{2} + 9^{2} = 145$$

$$42 \rightarrow 47$$
 $20 \rightarrow 2^{2} + 0^{2} = 4$
 $4 \rightarrow 4^{2} = 16$