2) (5 pts) ANL (Algorithm Analysis)

An algorithm processing a two dimensional array with R rows and C columns runs in $O(RC^2)$ time. For an array with 100 rows and 200 columns, the algorithm processes the array in 120 ms. How long would it be expected for the algorithm to take when processing an array with 200 rows and 500 columns? Please express your answer in **seconds.**

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