SQUARE ROOT USING BINARY SEARCH

In this problem, we are supposed to return the square root of a number but by using binary search. Simplest solution is to use math library in any programming language. Linear search is also possible with time complexity is O(7n)Binary search can be applied on low = 1, high = N and our condition to eliminate a half will be if mid x mid > N or not Pseudocode: sq Root BS (N) { $low = 1 \quad qans = -1$ high = N while (low == high), (mid = (low + high) [2 if (mid * mid < = N) { ans = mid low = mid + 1 } else el high = mid - 1

