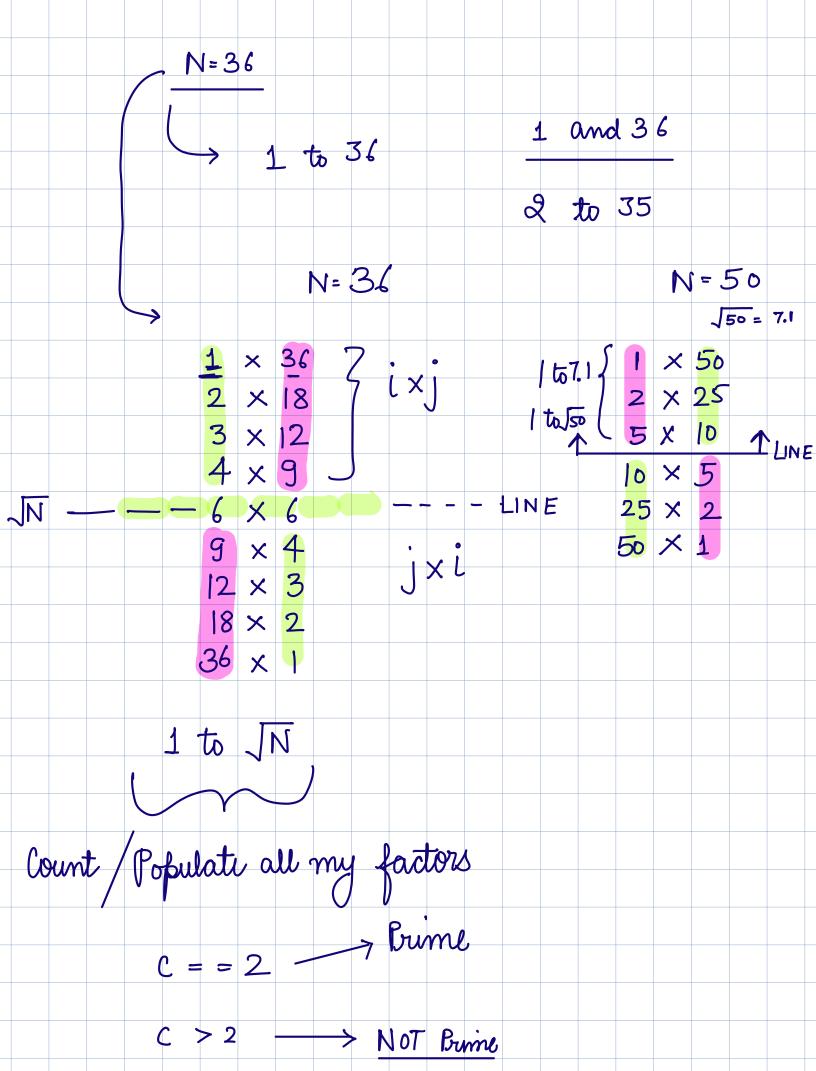
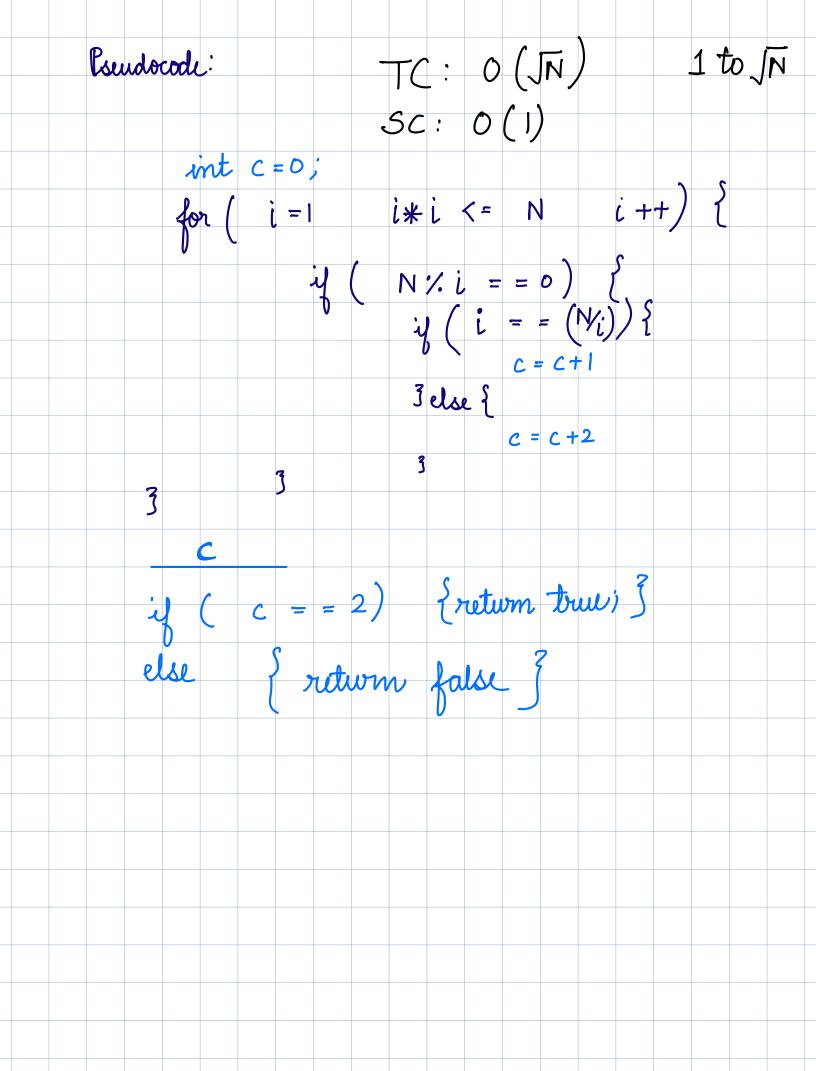
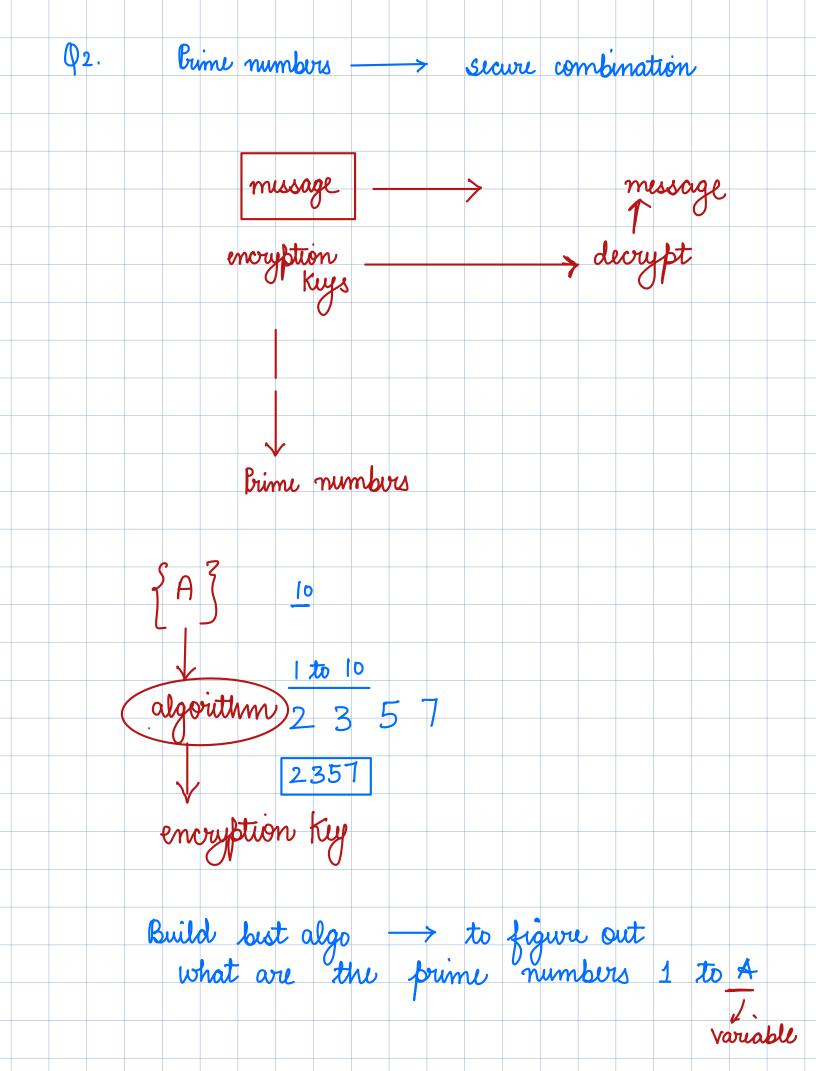
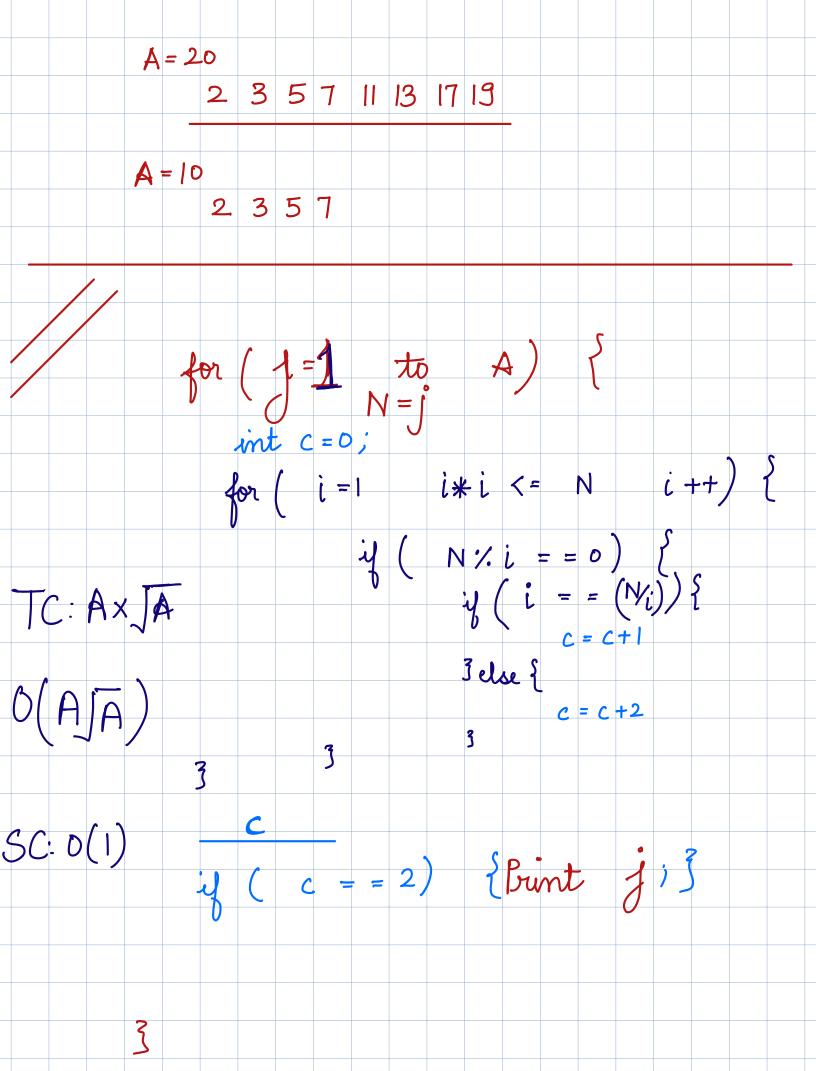
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find count of factors and if count is 2, it is prime! Approach: — Range: 1 to N y (N = = 1) { rutum false } if (N==2) { return true } for ( i = 2 i < N i + +) {
ij ( N % i = = 0) {
 return false
} return bus 12 11 = 2 factors <u>·11</u> bune



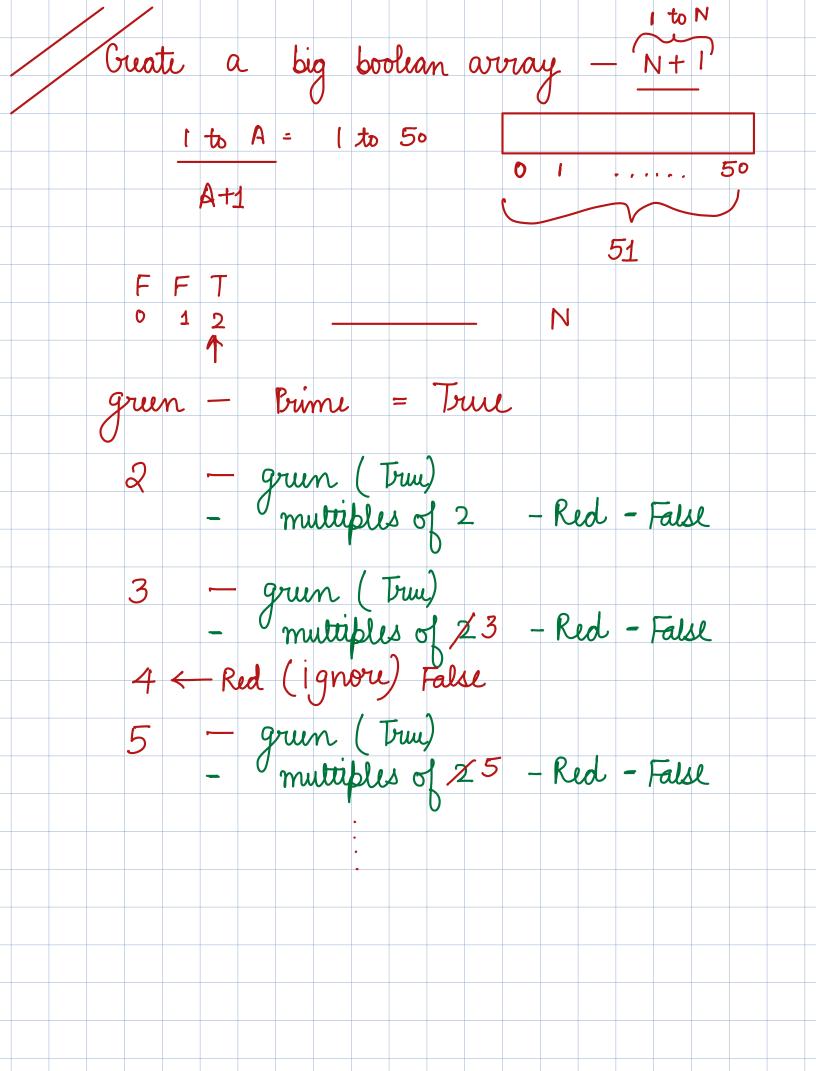


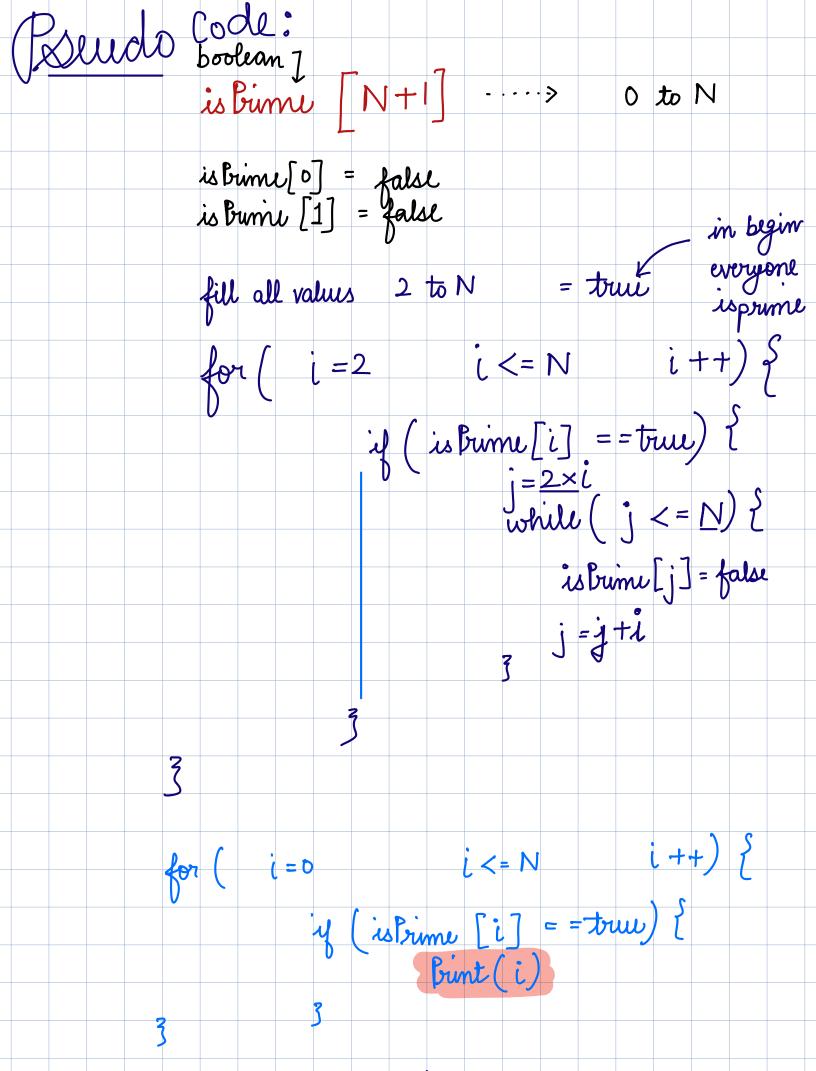




Sieve of Coratosthenes Observation: If 2 is a prime number Its multiples can never be a prime number. Non Prime 8 10 12 14 16 18 ... 1 to A A = 50 1 20 50 find all prime nos in 1 to 50







TC: O(Nlog(logN)) SC: 0(N) Count of 2 2 3 2 4 2 3 4 5 6 N=6 12232 1 +1 +1 +1 +1 +1

