```
#include <stdio.h>
#include <math.h>
#define MAXSIZE 3000
int main(){
   int i, flag, k;
   float new_arr_num = 0;
   float average, variance, std_deviation, sum = 0, sq_sum = 0, var_sum = 0;
  Compute the sum of prime elements between 0 and 3000*/
  for(i = 0; i <= MAXSIZE; i++){</pre>
      flag = 0;
      for(k = 1; k \le i; k++){
          if(i % k == 0){
             flag = flag + 1;
      if(flag == 2){
          sum += i;
          sq_sum += pow(i, 2);
          new_arr_num++;
  }
   average = (sum) / (new_arr_num);
^{\prime *} Compute variance and standard deviation of prime numbers between 0 and 3000*/
   var_sum = (sq_sum) / (new_arr_num);
   variance = (var_sum) - pow(average, 2);
   std_deviation = sqrt(variance);
   printf("\n\t t) computations of primes between 0 and 3000 are as below:\n\n");
   printf("\t----\\n");
   printf("\nAverage of all elements = %.2f\n\n", average);
   printf("variance of all elements = %.2f\n\n", variance);
   printf("Standard deviation = %.2f\n\n", std_deviation);
   return 0;
```