Write a program contains a class **Base** that has:

i. Data members: B[30] (integer), T[30] (char), n (number of elements).
ii. Funtion to read data member B and n .
iii. Function to check if a given number prime or not.
iv. Funtion to set the elements of T suh that eah elem T_i ='Y' if B_i prime and 'N' otherwise,
v. Virtual funtion average to return the average of prime numbers in B (use T's elements).

It contains a class Derive whih is a subclass of class from **Base** that has:

i. Data members: F[30] (large int), h(int).
ii. Function to return a factorial of a given number.
iii. Function to read h and set the elements of F such that each F_i = (B_i)! for $i = 0, .., n - 1$.
iv. Funtion to return the average of elements of F whih are greater than h.

In main function, define objects and pointer from all classes to call all functions.