B) (15 p) Create a program in C with the following requirements:

1) Program reads real numbers from file F51.txt and pushes them into queue A.

2) Program asks for real number input from the keyboard.

3) Array of numbers B is calculated using the following equation:

B0 = 1

B1 = -A1/X

B2 =(A2\* A3) / X2

B3 = -( A4 \*A5 \* A6)/X3

…

To calculate Bi the number Ai should be acquired from queue using FIFO (First In FirstOut) rule. The calculations will be carried out until there are remaining Ai values in the queue. When calculating the last Bi, the missing Ai values will be replaced by 1.

4) Finally the program should display the sum of Bi elements on the screen and write the individual Bi results into file F52.txt.

***NB!Use dynamical memory allocation and recursion when applicable.***

B). (5 p) Explain the following code snippet:

( char \*\*) malloc ( sizeof ( char \*) ) ;