(A)

1- Let A is a two dimensional array declared as int A[50][75]; use column wise method to find the locations of A[5][7], A[11][13], A[40][50], A[20][30], and A[35][45]. Note : location of A[1][0] is 4500

2- Write an algorithm to find the summation of the even numbers between 1 and n. What is the order of your function?

3- Characterize the following algorithm in terms of Big-O notation. How many operations in it.

for (int i = 1; i <= 2 \* n; i++)

for (int j = 1; j <= n; j++)

cout << 2 \* i + j;

cout << endl;

4- C++ Program to count all elements in a list.

(B)

1- Let A is a two dimensional array declared as int A[50][75]; use row wise method to find the locations of A[7][5], A[13][11], A[45][40], A[30][20], and A[35][45]. Note : location of A[0][1] is 15000

2- Write an algorithm to find the summation of the odd numbers between 1 and n. What is the order of your function?

3- Characterize the following algorithm in terms of Big-O notation. How many operations in it.

for (int i = 1; i <= 2 \* n; i++)

for (int j = 1; j <= n; j++)

cout << 2 \* i + j;

cout << endl;

4- C++ Program to display all elements in a list.