1.Given an array A of size N where the array elements contain values from 1 to N with duplicates, the task is to find total number of subarrays which start and end with the same element.

**package** pppp;

**import** java.util.Scanner;

**public** **class** aa {

// function to find total sub-array

// which start and end with same element

**public** **static** **void** cntArray(**int** A[], **int** N)

{

// initialize result with 0

**int** result = 0;

**for** (**int** i = 0; i < N; i++) {

// all size 1 sub-array

// is part of our result

result++;

// element at current index

**int** current\_value = A[i];

**for** (**int** j = i + 1; j < N; j++) {

// Check if A[j] = A[i]

// increase result by 1

**if** (A[j] == current\_value) {

result++;

}

}

}

// print the result

System.***out***.println("Total number of sub arrays are:"+result);

}

// Driver code

**public** **static** **void** main(String[] args)

{

**int** n;

Scanner s = **new** Scanner(System.***in***);

System.***out***.print("Enter no. of elements you want in array:");

n = s.nextInt();

**int** A[] = **new** **int**[n];

System.***out***.println("Enter all the elements:");

**for**(**int** i = 0; i < n; i++)

{

A[i] = s.nextInt();

}

**int** N = A.length;

*cntArray*(A, N);

}

}

