**Given a sorted integer array and number k, the task is to count pairs in an array whose product is less than x.**

**// C++ program to find number of pairs with**

**// product less than k in a sorted array**

**#include <bits/stdc++.h>**

**using namespace std;**

**// Function to count the pairs**

**int fun(int A[], int n, int k)**

**{**

**// count to keep count of**

**// number of pairs with product**

**// less than k**

**int count = 0;**

**int i = 0;**

**int j = n - 1;**

**// Traverse the array**

**while (i < j) {**

**// If product is less than k**

**// then count that pair**

**// and increment 'i'**

**if (A[i] \* A[j] < k) {**

**count += (j - i);**

**i++;**

**}**

**// Else decrement 'j'**

**else {**

**j--;**

**}**

**}**

**// Return count of pairs**

**return count;**

**}**

**// Driver code**

**int main()**

**{**

**int A[] = { 2, 3, 4, 6, 9 };**

**int n = sizeof(A) / sizeof(int);**

**int k = 20;**

**cout << "Number of pairs with product less than "**

**<< k << " = " << fun(A, n, k) << endl;**

**return 0;**

**}**