Minimum sum of product of two arrays

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#include <bits/stdc++.h>
using namespace std;
int minproduct(int a[], int b[], int n, int k) {
  int diff = 0, res = 0;
  int temp;
  for (int i = 0; i < n; i++) {
    int pro = a[i] * b[i];
    res = res + pro;
    if (pro < 0 && b[i] < 0)
      temp = (a[i] + 2 * k) * b[i];
    else if (pro < 0 && a[i] < 0)
      temp = (a[i] - 2 * k) * b[i];
    else if (pro > 0 && a[i] < 0)
      temp = (a[i] + 2 * k) * b[i];
    else if (pro > 0 && a[i] > 0)
      temp = (a[i] - 2 * k) * b[i];
    int d = abs(pro - temp);
    printf("d = %d, pro = %d, temp =  %d\n", d, pro, temp);
    if (d > diff)
     diff = d;
  }
  return res - diff;}
int main() {
  int a[] = {1, 2, -3};
  int b[] = {-2, 3, -5};
  int n = 3, k = 5;
  cout << minproduct(a, b, n, k) << endl;
  return 0;
}
```