Cartesian Product of two sets

#include <stdio.h>

int main() {

int set1[] = {1, 2, 3};

int set2[] = {4, 5};

int len1 = sizeof(set1) / sizeof(set1[0]);

int len2 = sizeof(set2) / sizeof(set2[0]);

// Find Cartesian product of set1 and set2

printf("Cartesian product of set1 and set2:\n");

for (int i = 0; i < len1; i++) {

for (int j = 0; j < len2; j++) {

printf("(%d, %d) ", set1[i], set2[j]);

}

}

printf("\n");

return 0;

}

Output:

Cartesian product of set1 and set2:

(1, 4) (1, 5) (2, 4) (2, 5) (3, 4) (3, 5)