**import** java.io.\*;

**class** KsmallestPair

{

**static** **void** kSmallestPair(**int** arr1[], **int** n1, **int** arr2[],

**int** n2, **int** k)

{

**if** (k > n1\*n2)

{

System.***out***.print("k pairs don't exist");

**return** ;

}

**int** index2[] = **new** **int**[n1];

**while** (k > 0)

{

**int** min\_sum = Integer.***MAX\_VALUE***;

**int** min\_index = 0;

**for** (**int** i1 = 0; i1 < n1; i1++)

{

**if** (index2[i1] < n2 &&

arr1[i1] + arr2[index2[i1]] < min\_sum)

{

min\_index = i1;

min\_sum = arr1[i1] + arr2[index2[i1]];

}

}

System.***out***.print("(" + arr1[min\_index] + ", " +

arr2[index2[min\_index]]+ ") ");

index2[min\_index]++;

k--;

}

}

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

{

**int** arr1[] = {1, 3, 11};

**int** n1 = arr1.length;

**int** arr2[] = {2, 4, 8};

**int** n2 = arr2.length;

**int** k = 4;

*kSmallestPair*( arr1, n1, arr2, n2, k);

}

}