import java.util.Scanner;

public class PrimeNumbers {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter an integer to find prime numbers up to: ");

int limit = scanner.nextInt();

System.out.println("Prime numbers up to " + limit + ":");

for (int i = 2; i <= limit; i++) {

if (isPrime(i)) {

System.out.print(i + " ");

}

}

scanner.close();

}

public static boolean isPrime(int num) {

if (num <= 1) {

return false;

}

for (int i = 2; i <= Math.sqrt(num); i++) {

if (num % i == 0) {

return false;

}

}

return true;

}

}