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**LOOPS QUESTION 11**

public class PrimeNumbers {

public static void main(String[] args) {

int number = 2;

System.out.println("Prime numbers between 0 and 100:");

while (number <= 100) {

if (isPrime(number)) {

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

}

number++;

}

}

// Helper method to check if a number is prime

private static boolean isPrime(int num) {

if (num <= 1) {

return false;

}

if (num == 2) {

return true;

}

// Check if the number is divisible by any number from 2 to its square root

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

if (num % i == 0) {

return false;

}

}

return true;

}

}