void main() {

  print(isPalindrome("madam"));

  print(fibonacci(10));

  print(sumOfEvens([1, 2, 3, 4, 5, 6]));

  print(countVowels("hello world"));

  print(reverseString("dart"));

  print(removeSpaces("hello world"));

  print(isPrime(7));

  print(multiplyList([1, 2, 3, 4], 2));

}

bool isPalindrome(String str) {

  return str == str.split('').reversed.join('');

}

List<int> fibonacci(int n) {

  List<int> fib = [0, 1];

  for (int i = 2; i < n; i++) {

    fib.add(fib[i - 1] + fib[i - 2]);

  }

  return fib;

}

int sumOfEvens(List<int> numbers) {

  return numbers.where((number) => number % 2 == 0).fold(0, (sum, number) => sum + number);

}

int countVowels(String str) {

  return str.split('').where((char) => 'aeiou'.contains(char)).length;

}

String reverseString(String str) {

  return str.split('').reversed.join('');

}

String removeSpaces(String str) {

  return str.replaceAll(' ', '');

}

bool isPrime(int number) {

  if (number < 2) return false;

  for (int i = 2; i \* i <= number; i++) {

    if (number % i == 0) return false;

  }

  return true;

}

List<int> multiplyList(List<int> numbers, int multiplier) {

  return numbers.map((number) => number \* multiplier).toList();

}

