## Fibonacci numbers

The Fibonacci numbers are the numbers in the following integer sequence (Fn):

such as

$$F(n) = F(n-1) + F(n-2)$$
 with  $F(0) = 0$  and  $F(1) = 1$ .

Given a number, say product, we search two Fibonacci numbers

$$F(n)$$
 and  $F(n+1)$  verifying

$$F(n) * F(n+1) = prod.$$

Your function productFib takes an NSNumber (prod) and returns an array of NSNumbers:

@1 if F(n) \* F(n+1) = prod and @0 if <math>F(n) \* F(n+1) is not equal to prod

## Example:

```
productFibonacciSequenceFor(@15) # should return (@3, @5, @1), # since F(4) = 3, F(5) = 5 and 15 = 3 * 5
```

```
productFib(30) # should return (@5, @8, @0),
# since F(4) = 3, F(5) = 5, F(6) = 8 and 3 * 5 < 30 < 5 * 8
```