```
. then () always returns a new promise. What happens to that promise?
                                  promiseB = promiseA.then( [successHandler], [errorHandler] );
                                                                     when
                                                                  promiseA
                                                                       is
// promiseA is fulfilled with 'hello'
                                                                                                                  // promiseA is rejected with 'bad request'
                                              fulfilled with
                                                                                        rejected with
                                                                                                                  promiseA
                                                data
                                                                                          reason
                                                                                                                    .then( myFunc1, null, myFunc2 )
                                                                                                                    .then()
                                                  and
                                                                                            and
                                                                                                                    .then( null, console.log );
                                   has no success.
                                                                                                 has no error
                                                                                     has an
                                                      has a
                                       handler
                                                                                                   handler
                                                                                      error
                                                     success
                                                                   handler
                                                                                     handler
                                                     handler
                     promiseB.resolve(data);
                                                                                                 promiseB.reject(reason);
                                                                     which
                       FULFILLMENT BUBBLED
                                                                                                    REJECTION BUBBLED
                                        returns
                                                                     returns
                                                                                                   throws
                                       result
                                                                  promiseZ
                                                                                                    err
                    promiseB.resolve(result);
                                                             promiseB ← promiseZ
                                                                                                  promiseB.reject(err);
                        PROMISE FOR RESULT
                                                                 ASSIMILATION
                                                                                                       ERROR CAUGHT
```

```
// promiseForVall is fulfilled with 999
promiseForVal2 = promiseForVal1
  .then( function success (val1) {
    val2 = val1++;
    return val2:
 });
// result: promiseForVal2 is fulfilled with 1000.
// same idea, shown in a direct chain:
promiseForVal1
  .then( function success (val1) {
    // do some code to make val2
    return val2; -
  .then( function success (val2) {
    console.log( val2 );
```

promiseA

.then()

});

.then( null, | myFunc1, myFunc2 )

// result: console shows 'hello'

.then( console.log );

```
promiseForMessages = promiseForUser
  .then( function success (user) {
    // do some code to make a new promise
   return promiseForMessages;
  });
// same idea, shown in a direct chain:
promiseForUser
  .then( function success (user) {
    // do some code to make a new promise
   return promiseForMessages;
 })
  .then( function success (messages) {
    console.log( messages );
```

```
// promiseForVal2 will be rejected with error '404':
promiseForVal2 = promiseForVal1
  .then( function success (val1) {
    // THROWN ERROR '404' trying to make val2
    return val2:
 });
// same idea, shown in a direct chain:
promiseForVal1
  .then( function success (val1) {
    // THROWN ERROR '404' trying to make val2
   return val2;
  .then( null, function failed (err) {
    // handle the error as you prefer
    console.log('Oops!', err);
 });
// console shows 'Oops! 404'
```