1. What will be the output of the code below?

```objc
NSString *first = @"Objective C is cool.";
NSString *second = [first stringByReplacingOccurrencesOfString:
@"cool" withString:@"awesome"];
NSLog(@"Apple %s", second);
```

2. What is the result of the following method execution?

```objc
- (NSDictionary *)createTestDictionary {

    NSMutableDictionary *mutableDict = [NSMutableDictionary
dictionary];

    NSString *value;
    [mutableDict setObject:value forKey:@"Test"];

    return mutableDict;
}
```

3. The result of the following code is:

```objc
NSArray *array = [[NSArray alloc] init];
NSLog(@"%@", [array firstObject]);
```

4. What value of the count will be printed?

```objc
NSInteger count = 0;

NSArray *array = [NSArray arrayWithObjects:@40, @"Test", @123,
[NSMutableString stringWithString:@"9"], @"123", @"Test String", nil];

for (id object in array) {
   if ([object isKindOfClass: [NSString class]]) {
        count++;
   }
}

NSLog(@"%ld", (long)count);
```

5. What is the problem with the code below?

```
dispatch_async(dispatch_get_main_queue(), ^{
NSLog(@"One");
});

dispatch_sync(dispatch_get_main_queue(), ^{
NSLog(@"Two");
});
```