

## CS 313 Parameter Passing Worksheet

1. Consider the following procedure definition and statements (in pseudo-code):

```
procedure proc1(p, q) {  
    p := 1;  
    q := 2;  
}  
  
i := 0;  a[0] := 0;  a[1] := 0;  
proc1(i, a[i]);
```

For each of the following parameter-passing mechanisms, list the values of *i*, *a*[0], and *a*[1] after the above code has been executed.

	<i>i</i>	<i>a</i> [0]	<i>a</i> [1]
pass-by-value:			
pass-by-reference:			
pass-by-name:			

2. Consider the following procedure definition and statements (in pseudo-code):

```
var c, d;                                // global variables  
  
procedure proc2(p, q) {  
    c := p * 2;  
    q := c - 1;  
}  
  
c := 3;  d := 2;  
proc2(c, d);
```

For each of the following parameter-passing mechanisms, list the values of *c* and *d* after the above code has been executed.

	<i>c</i>	<i>d</i>
pass-by-value:		
pass-by-reference:		
pass-by-value-result:		