

CT255 Assignment 4

Michael McCurtin

ID: 21459584

Output: Problem 1

```
-----Scenario 1:-----  
Generated prime 14657  
Alice's secret value: 5  
Bob's's secret value: 4  
Alice sends the public value 9375 to Bob  
Bob sends the public value 768 to Alice  
Alice generates the secret key 10909  
Bob generates the secret key 10909
```

Output: Problem 2

```
-----Scenario 2:-----  
Generated prime 41641  
Alice's secret value: 5  
Bob's's secret value: 6  
Mallory's secret value: 7  
Alice sends the public value 40625 to Bob (intercepted by MALLORY)  
Bob sends the public value 23554 to Alice (intercepted by MALLORY)  
Mallory sends the public value 4322 to Bob  
Mallory sends the public value 4322 to Alice  
MalloryBob secret key: 14566  
Alice generates the secret key 14566  
MalloryAlice secret key: 21510  
Bob generates the secret key 21510  
-----
```

```
Process finished with exit code 0
```