

## ECE5480 - Report for Project 2

Outputs of the recover\_hashed\_passwords\_INCOMPLETE.py:

```
MATCH: hash # 6b1628b016dff46e6fa35684be6acc96  
= summer
```

```
It took 65.51900014528655 microseconds.  
MATCH: hash # 5f0cbc3f99acb914d429cfdcf23dd75e3  
= teresa
```

```
It took 151.73699966908316 microseconds.  
MATCH: hash # a41d81871cc00919542ac86f493b9b76  
= monkey1
```

```
It took 315.52500013276585 microseconds.  
MATCH: hash # 5ee1e992958b13adfd77e10342f25f6c  
= mallard
```

```
It took 566.5800003953336 microseconds.  
MATCH: hash # ccd2500d28c20d30c86f68d4f650c779  
= fugazi
```

```
It took 678.7289999010682 microseconds.  
NO MATCH FOUND FOR b0ad4b17c21cad161dc808840f2a9c21  
It took 2305.4009998304537 microseconds.  
MATCH: hash # 81fe4afefa3e2a0bf8b1380b099346b5  
= paris1
```

```
It took 1349.4269996954245 microseconds.  
MATCH: hash # ed4591bf3238c655bf52d03f5adf2c6b  
= enternow
```

```
It took 1591.4539999357658 microseconds.  
MATCH: hash # ab31caa6ef5359077abed6b118812034  
= scheisse
```

```
It took 1824.9169997943682 microseconds.  
MATCH: hash # 50aca589a364d11519edd57ae4df5a1f  
= taztaz
```

```
It took 2244.496999992407 microseconds.  
NO MATCH FOUND FOR  
It took 2139.5009998741443 microseconds.
```

Answers:

1. Min time to recover password:  
65.159 ms for password summer
2. Max time to recover password:  
1824.917 ms for password taztaz

3. Time needed to search the entire rainbow table when no password could be recovered:  
2139.5 ms for searching entire rainbow table