

## Hung Nguyen - Data Security Project 4

## I. How to run:

- a. The following command calls and runs the target generation function:

**python.exe target.py 20**

**"C:/Users/hungn/Documents/pow\_m10290670/data/target.txt"**

where the arguments are length of the target and location of the target file.

**Screenshot of the output of the target generation function:**

```
PS C:\Users\hungn\Documents\pow_m1029067> python.exe target.py 20 "c:/Users/hungn/Documents/pow_m10290670/data/target.txt"
```

- b. The following command calls and runs the solution generation function:**

```
python.exe sol.py
```

**"C:/Users/hungn/Documents/pow\_m10290670/data/target.txt"**

**"C:/Users/hungn/Documents/pow\_m10290670/data/input.txt"**

**"C:/Users/hungn/Documents/pow\_m10290670/data/solution.txt"**

where the arguments are location of the target file, location of the input file, location of the solution file.

**Screenshot of the output of the solution generation function:**

```
PS C:\Users\hungn\Documents\pow_m102906\0> python.exe sol.py "C:/Users/hungn/Documents/pow_m102906/0/data/target.txt" "C:/Users/hungn/Documents/pow_m102906/0/data/input.txt" "C:/Users/hungn/Documents/pow_m102906/0/data/solution.txt"
151963
```

- c. The following commands calls and runs the verification function:**

**python.exe verify.py**

**"C:/Users/hungn/Documents/pow\_m10290670/data/target.txt"**

**"C:/Users/hungn/Documents/pow\_m10290670/data/input.txt"**

**"C:/Users/hungn/Documents/pow\_m10290670/data/solution.txt"**

where the arguments are location of the target file, location of the input file, location of the solution file.

**Screenshot of the output of the verification function:**



```
PS C:\Users\hungn\Documents\pow_m10290670> python.exe verify.py "C:/Users/hungn/Documents/pow_m10290670/data/target.txt" "C:/Users/hungn/Documents/pow_m10290670/data/input.txt" "C:/Users/hungn/Documents/pow_m10290670/data/solution.txt"
1
```