Cumulative Sums Test

Test from NIST document(2.13) available under URL: `https://nvlpubs.nist.gov/nistpubs/legacy/sp/nistspecialpublication800-22r1a.pdf`.
There is only implemented *forward mode* for this test.

Input

File in *.pkl* format with included:
numbers for testing;
n, which is a number of numbers;
Modulus used in PRNG recursion;
PRNG, the name of PRNG used to generate numbers.

Results

As a result you get *p-value* which determines whether included numbers are random.

Usage

To use *Cumulative Sums Test*, you need to run *z3Cusum.py* using python version 3 with installed *numpy*, *scipy*, *argparse* and *pandas* packages.
To learn how to use this test, it is advised to run programme with one of the following commands:

```
python3 z3Cusum.py --help
python3 z3Cusum.py -h
```

Examples

```
python3 z3Cusum.py --input-file pickle.pkl
python3 z3Cusum.py    #if there is a file in working directory described in --help
```