Acorn

- seed:list[int]
- state:dict
- M:int
- seen:set

+ Acorn(seed:int, M:int)
+ get_state():dict
+ set_state(state:dict)

MiddleSquare

- seed:int
- seen:set
- state:dict

+ MiddleSquare(seed:int)
+ get_state():dict
+ set_state(state:dict)

Analyzer

- max:int
- min:int
- average:float
- period:int
- bit_freqs:list[int]

+ Analyzer(rand_num_gen:(MiddleSquare || LaggedFibonacci || Acorn || LinearCongruential))
+ analyze(max_nums:int)

LaggedFibonacci

- seed:list[int]
- state:dict
- seen:set
- operator:str
- j:int
- k:int
- m:int

+ LageedFibonacci(seed:list[int], j:int, k:int, m:int)
+ get_state():dict
+ set_state(state:dict)

LinearCongruential

- seed:int
- state:dict
- seen:set

+ LinearCongruential(seed:int, a:int, c:int, m:int)
+ get_state():dict
+ set_state(state:dict)