1. Adaptor
2. Abstract factory
3. Factory
4. Builder
5. Visitor
6. Mediator
7. Observer
8. Interpret
9. Decorator
10. Iterator
11. Flyweight
12. Façade
13. Chain of responsible
14. Command

Compose

1. State
2. Strategy
3. Prototype
4. Template
5. Memo
6. Bridge
7. Singleton
8. Proxy
9. Duck
10. Serlization/deserlization/json
11. Enum( nest)
12. Megic function (+,-,<,>)
13. SOLID
14. ABC
15. MRO/MIXIN/WITH CONTEXT
16. PROPERTY (@,CLASS) ATTRIBUTE
17. DESCRIPTOR
18. REGULAR/PUMP +50 (CLL,DLL,SLL,DEQUE, STACK, QUEUE, PRIORITY QUEUE, HEAP, HASH MAP, RECURSION, BSF,DSF,SHORTEST PATH 3 METHOD, RECURSION (HEAD, TAIL, NEST, INDIRECT),BST,2-3,2-3-4, RED\_BLACK, STRING TREE, BUBBLE, INSERATION, MERGE, QUICK, RECURSION, HASHING, BINARY SERACH; PIPELINE, ASYNC (FUTURE, TASK, EVENT\_LOOP, \_CALLxxx, \_AS\_COMPLETE, COROUTINE, CONCURRENT), THREADPOOL EXECUTOR, A POOL OF WORKERS, COROUTINE -PIPE, GENERATOR (YIELD ,YIELD FROM, NEXT, CLOSE, THROW, SENDING DATA), GEVENT, GREENLET, @COROUTINE, @SEMPHORE)
19. EVIL
20. DECORATOR +11 (STACK, TIMER, LOGGER, DISTRIBUTOR, DISPATCH, COROUTINE, SEMPHORE, CACHE, RETRY, EEXEMPT, PUMBA)
21. ITERATOR +27( CLL,DLL, SLL, DEQUE, STACK, QUEUE, PRIORITY QUEUE, HEAP , HASH MAP, SHORTEST PATH 3 METHODS, BST, 2-3,2-3-4, RED\_BLACK, AVL, STRING TREE,PIPELINE, RECURSION BSF,DSF; ASYNC (FUTURE, TASK, EVENT\_LOOP, \_CALLXXX,\_AS\_COMPLETE, COROUTINE, CONCURTRENT), THREADPOOL EXECUTOR, A POOL OF WORKERS, HASHING, BINARY SEARCH, LINEAR SEARCH,COROUTINE+PIPE, GENERATOR, GENEVT, GREENLET, @COROUINTE, @SEMPHORE )
22. MEATCLASS
23. EXEMPT (nest, multiple block)
24. DATE (@, MULTIPLE THREAD POOL)
25. [SEMPHORE, BOUND SEMPHORE, CONDITON (GET QUEUE STATUS), CYCLIC BARRIRE, COUNTDOWN LATCH, EXCHANGE, REENTER LOCK, LOCK] ,WAIT, NOTIFY ,NOTIFY ALL, YIELD, JOIN, SLEEP,SYNCHRONIZAITON
26. [THREADLOCAL, FAST THREAD LOCAL, TRY LOCK, LOCK INTREPRUTLY, CAS ABA, LOCK SUPPORT, LOCK, REENTER LOCK , COUNTDOWN LATCH, DECORATOR, LOCK PREFER, LOCK TIME, write/read lock, pessimiss/optimis lock]
27. [thread array (write /read thread, buffer, W/R ratio,(single->continuos->soft trigger), DLL, ER, SELF CALIBRATION, write/read thread, ratio=1),DAEMON, thread factory, hook]
28. [executor service (then apply, then invoke ), future, fork join pool, fork join frame work]
29. [thread pool executor :schedule thread pool executor, fix thread pool executor, cache thread pool executor, single thread pool executor][executor service (then apply , then invoke), future ,fork join frame work, fork join pool]
30. [complete future (then apply, then compose, then combine @async, @ complete future, multiple thread pool, multiple thread pool (user defined) executor service)]
31. Semaphore, condition, event, muxex, barrier, reenter lock, lock
32. Future ( multiple thread pool, multiple process pool ,apply)
33. A pool of workers
34. Coroutine +pipe
35. Generator (yield, yield from, close, throw, next,sending data)
36. Async ( future, event\_loop, task, \_callxxx, \_as\_complete, coroutine frame woerk, concurrent)
37. Gevent ,greenlet
38. http+async
39. multiple process pool+async
40. pandas +sql+my sql (map, apply map, apply, group by, agg)
41. numpy, scipy (broadcasting)
42. matplotlib
43. TCP/UDP
44. SUBSCRIPTTION/ BERAODCASTING
45. ACTOR
46. FLASK\REQUEST\SQIL
47. BEAUTIFUL SOAP
48. MONGDA \SQL \MYSQL (LAMBDA, NEST LAMBDA, IN, NOT IN, WHERE)
49. DAQ+GPIB+USB+ETHERNET
50. DEADLOCK
51. STARVATION
52. RACE CONDITON+GIL
53. PDF+EXCEL
54. HASHMAP
55. COROUTEIN+PIPE
56. THREADPOOLEXECUTOR
57. CLL+DLL+SLL+DEQUE+STACK+QUEUE+PRIORITY QUEUE+ HEAP+HASHMAP
58. BSF+DSF+RECURSION+PIPELINE+SHOETEST PATH 3 METHOS
59. BST,2-3,2-3-4,RED\_BLACK,AVL, STRING TREEE
60. LINEAR/MULTIPLE/POLYNAMIC/LOG REGRESION