活跃币龄(Active Coinage)

活跃币龄：在当前周期内，某个地址新接收和新发出的币为活跃币，这些币的币龄为该地址的活跃币龄

```python
def calculate(cur, genesis, nodes):
    for node in nodes:
        # cal coinage according to the active coins
        if node.balance < 0:
            coinage = (genesis.no - cur.no) * node.balance
            node.coinage += coinage
            node.balance = 0
        else:
            node.coinage += node.balance


def cal_coinage(nodes, transactions):
    # first block
    genesis = transactions[0].block
    for trans in transactions:
        # next block
        if cur.no < trans.block.no:
            # cal coinage till current block
            calculate(cur.no, genesis.no, nodes)
            cur = trans.block
        # record balance
        edge.from.balance -= edge.coins
        edge.to.balance += edge.coins
    # cal coinage till current block
    calculate(cur, genesis, nodes)
```