```
def transactions(agent array, tr num):
people = copy.copy(agent array)
total money begin = sum(agent array)
current = 1
while current <= tr num:
    i = random.randint(0,len(agent array)-1)
    j = random.randint(0,len(agent array)-1)
    m i = people[i]
    m j = people[j]
    total m = m i + m j
    epsilon = random.uniform(0,1)
    current += 1
    if people[i]>0 and people[j]>0:
        people[i] = epsilon*total m
        people[j] = (1-epsilon)*total m
    else:
        continue
total money end = sum(people)
#print(total money begin, total money end)
return people
```