

Perfect number

Совершенное число

$$6=1+2+3$$

$$28=1+2+4+7+14$$

def perfect(topedge):

51)900 000 000 digits 2019

1000000\$

$$24!=1+2+3+4+6+8+12=36$$

```
def checkperfect(candidate):
    j=1
    summ=0
    while j<candidate:
        if candidate%j==0:
            summ=summ+j
        j+=1
    if summ==candidate:
        return 1#perfect
    else:
        return 0#not perfect
```

```
def perfect(topedge):
    i=1
    while i<topedge:
        if checkperfect(i)==1:
            print(i)
        i+=1
```

```
perfect(1000)
```