

Coverage for **factor.py** : 100%10 statements

```
1
2 | def smallest_factor(n):
3   """Return prime factor of the positive integer n"""
4
5   if isinstance(n, int):
6     if n > 0:
7       if n == 1:
8         return 1
9       #original incorrect code:
10      #for i in range(2, int(n **.5)):
11      #error is because the loop does not iterate over the value int(n **.5)
12      #because the upper bound given in the range function is not inclusive
13      #corrected code:
14      for i in range(2, int(n **.5) + 1):
15        if n % i == 0:
16          return i
17      return n
18  return None
```

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