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6.00 Introduction to Computer Science and Programming  
Fall 2008

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**6.00 Handout, Lecture 3**  
**(Not intended to make sense outside of lecture)**  
**Fall 2008**

```
#Find the square root of a perfect square
x = 16
ans = 0
while ans*ans <= x:
    ans = ans + 1
print ans
```

```
ans = 0
if x >= 0:
    while ans*ans < x:
        ans = ans + 1
        print 'ans =', ans
    if ans*ans != x:
        print x, 'is not a perfect square'
    else: print ans
else: print x, 'is a negative number'
```

```
x = 10
i = 1
while(i<x):
    if x%i == 0:
        print 'divisor ',i
    i = i+1
```

```
x = 10
for i in range(1, x):
    if x%i == 0:
        print 'divisor ',i
```

```
x = 100
divisors = []
for i in range(1,x):
    if x%i == 0:
        divisors = divisors+[i]
```

```
sumDigits = 0
for c in str(1952):
    sumDigits += int(c)
print sumDigits
```