COS 324, HW #1, Problem #1

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Part (a)

This is one way to format a code sample.

```python
def sqr(x):
    return x*x

print sqr(111)
```

Uncomment the line below in the source to insert an image.

Part (b)

Format in-line math like this: $x, y \in \mathbb{R}$. Single line breaks in your TeX source are treated like spaces. Double line breaks denote a new paragraph.

For longer equations, use display mode:

$$
\rho(x) = \frac{1}{\sqrt{2\pi\sigma}} e^{-\frac{x^2}{2\sigma^2}}.
$$

To format multi-line equations, you may want to use:

$$
\Pr[X > 0] = \int_{0}^{\infty} \frac{1}{\sqrt{2\pi\sigma}} e^{-\frac{x^2}{2\sigma^2}} \, dx
= \frac{1}{2}.
$$