In [1]:
```
# DSC530-T302
# Stephen Smitshoek
# Week05
# Exercise 5-1
```

In [2]:
```
import scipy.stats
```

In [3]:
```
def main():
    mu = 178
    sigma = 7.7
    smallest = 177.8  # 5'10"
    tallest = 185.42  # 6'1"

    small_perc_rank = scipy.stats.norm.cdf(smallest, loc=mu, scale=sigma)
    tall_perc_rank = scipy.stats.norm.cdf(tallest, loc=mu, scale=sigma)

    print('The percentage of males in the US that are within the height range to be' \
          ' in the Blue Man Group is {}%'.format(round((tall_perc_rank - small_perc_ra
```

In [4]:
```
if __name__ == '__main__':
    main()
```

```
The percentage of males in the US that are within the height range to be in the Blue
Man Group is 34.27%
```