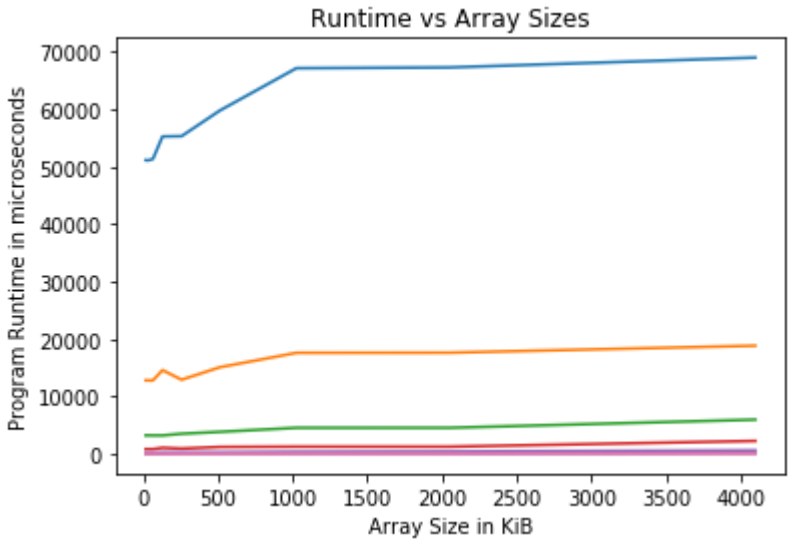
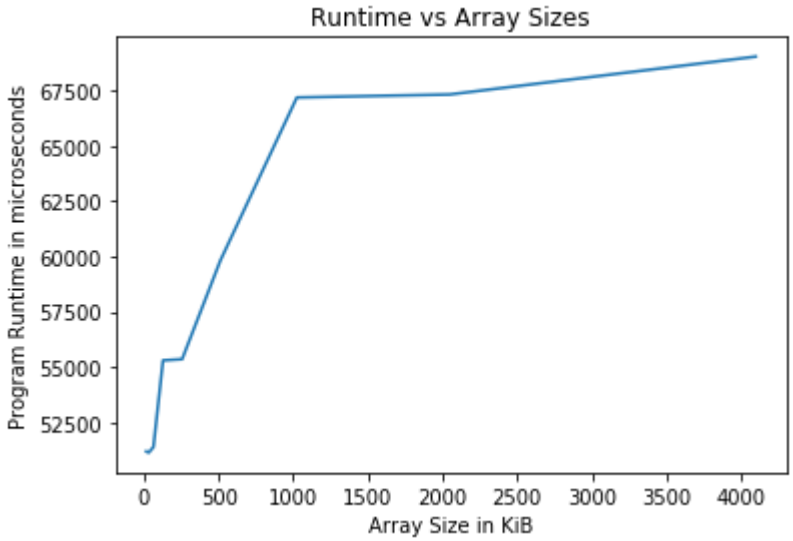
In [1]:
```
import numpy as np
import matplotlib.pyplot as plt
```

PART 1: CACHE SIZE

In [2]:
```
test_array_strides = []
test_array_time = []
i = 0;
with open('test_input2.txt') as test:
    for line in test:
        i+=1;
        data = line.split()
        test_array_strides.append(int(data[0]))
        test_array_time.append(float(data[1]))
        if (i == 9):
            x = np.array(test_array_strides)
            y = np.array(test_array_time)
            plt.plot(x,y)
            test_array_strides = []
            test_array_time = []
            i=0
plt.xlabel('Array Size in KiB')
plt.ylabel('Program Runtime in microseconds')
plt.title('Runtime vs Array Sizes')
plt.show()
```



In [3]:
```
array_size = []
array_time = []
with open('cache.txt') as test:
    for line in test:
        data = line.split()
        array_size.append(int(data[0]))
        array_time.append(float(data[1]))
x = np.array(array_size)
y = np.array(array_time)
plt.plot(x,y)
plt.xlabel('Array Size in KiB')
plt.ylabel('Program Runtime in microseconds')
plt.title('Runtime vs Array Sizes')
plt.show()
```



PART 2: BANDWIDTH

In [4]:
```
array_size_b = []
array_bandwidth = []
with open('bandwidth1.txt') as test:
    for line in test:
        data = line.split()
        array_size_b.append(int(data[0]))
        array_bandwidth.append(float(data[1]))
x = np.array(array_size_b)
y = np.array(array_bandwidth)
plt.plot(x,y)
plt.xlabel('Array Size in KiB')
plt.ylabel('Bandwidth in GiB/s')
plt.title('Bandwidth vs Array Sizes')
plt.show()
```