ads1-hw-examples (/github/BenLangmead/ads1-hw-examples/tree/master)
/ hw1\_naive\_2mm.ipynb (/github/BenLangmead/ads1-hw-examples/tree/master/hw1\_naive\_2mm.ipynb)

2015-08-24 21:55:39 (5.09 MB/s) - 'phix.fa' saved [5528/5528]

```
In [1]: # Implement the naive_2mm function
from naive_2mm import naive_2mm
```

## Example 1

```
In [2]: p = 'CTGT'
   ten_as = 'AAAAAAAAA'
   t = ten_as + 'CTGT' + ten_as + 'CTTT' + ten_as + 'CGGG' + ten_as
   occurrences = naive_2mm(p, t)
   print(occurrences)
[10, 24, 38]
```

## Example 2

```
In [5]: phix_genome = readGenome('phix.fa')
In [6]: occurrences = naive_2mm('GATTACA', phix_genome)
```

```
In [7]: print('offset of leftmost occurrence: %d' % min(occurrences))
    offset of leftmost occurrence: 10
```

```
In [8]: print('# occurrences: %d' % len(occurrences))
```

# occurrences: 79