1/25/2017 Ni-Tu-HW1

Data-X(IEOR 290): HW 1

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Problem 1

```
In [1]: a = list()
In [2]: a = [x/2.0 for x in range(4,93)]
In [3]: for i in range(len(a)):
    if a[i] % 2 == 0:
        a[i] *= 2

In [5]: s = 0
    for i in range(len(a)):
        if i == 31 or i == 50:
            continue
        s += a[i]

In [11]: mean = sum(a)/len(a)
In [12]: a_half = [x for x in a if (int(x) - x) != 0]
In [20]: a = sorted([x for x in a if x not in a_half]) + sorted([x for x in a if x in a_half])
```

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```
In [22]: for i in range(len(a)):
              if i % 4 == 0:
                  print(a[i])
          print(len(a half))
          print(len(a)-len(a_half))
         3.0
         8.0
         13.0
         19.0
         24.0
         29.0
         35.0
         40.0
         45.0
         60.0
         76.0
         92.0
         5.5
         9.5
         13.5
         17.5
         21.5
         25.5
         29.5
         33.5
         37.5
         41.5
         45.5
          44
         45
```

Problem 2

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In [47]: new = "This is the end of the first HW"
b = b + new.split()

In [52]: res = ' '.join(b)
print (res[::-1])

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