



## Input file #

You can download the input file from here: [data.pdf](#).

## Solution #

A complete explanation of the Python code is **out of the scope** for this course (hint: learn the Python module `pdfquery`). It should be easy enough for you to understand how we capture the `product_name` from the pdf file using bounding box function `LTTextLineHorizontal.in_bbox("40, 48, 181, 633")` and then iterate over the products and search using regex and then only print the `Tandem` Manufacturers.

```
import re

import pdfquery
from lxml import etree

PDF_FILE = 'data.pdf'

pdf = pdfquery.PDFQuery(PDF_FILE)
pdf.load()

product_info = []
page_count = len(pdf._pages)
for pg in range(page_count):
    data = pdf.extract([
        ('with_parent', 'LTPage[pageid="{0}"]'.format(pg+1)),
        ('with_formatter', None),
        ('product_name', 'LTTextLineHorizontal.in_bbox("40, 48, 181, 633")'),
    ])

    for ix, pn in enumerate(sorted([d for d in data['product_name'] if d.text.strip()], key=lambda d: d.get('y0')), key=1):
        if ix % 2 == 0:
            product_info.append({'Manufacturer': pn.text.strip(), 'page': pg, 'y_start': float(pn.get('y0'))})
            if ix > 0:
                product_info[-2]['y_end'] = float(pn.get('y0'))+10.0
        else:
            product_info[-1]['Model'] = pn.text.strip()

pdf.file.close()

for p in product_info:
    s = p['Manufacturer']
    m = re.search(r"Tandem", s, re.I)
    if m:
        print('Manufacturer: {[Model {}]}\n'.format(p['Manufacturer'], p['Model']))
```



We have preloaded the data onto [educative.io](https://educative.io)'s server and you should be able to run the code straight ahead and get the output as follows:

```
Manufacturer: Tandem Diabetes Care[Model T:flex]  
Manufacturer: Tandem Diabetes Care[Model T:slim]
```

From this result we can see that there are two models `T:flex` and `T:slim` supplied by the manufacturer called 'Tandem Diabetes Care'. The problem solution has been adopted and simplified from the reddit user [insainodwayno](#).