In [1]:

```
import sys
import pprint
import requests
from dateutil.parser import parse


class YahooWeatherForecast:

    #def __init__(self):
    #    self._city_cache = {}

    def get(self, city):
        #if city in self._cached_data:
        #    return self._cached_data[city]
        url = f"https://query.yahooapis.com/v1/public/yql?q=select%20*%20from%20weather.forecast%20where%20woeid%20in%20(select%20woeid%20from%20geo.places(1)%20where%20text%3D%22{city}%22)%20and%20u%3D%27c%27&format=json&env=store%3A%2F%2Fdatatables.org%2Falltableswithkeys"
        data = requests.get(url).json()
        forecast = []
        forecast_data = data["query"]["results"]["channel"]["item"]["forecast"]
        for day_data in forecast_data:
            forecast.append({
                "date": parse(day_data["date"]),
                "high_temp": int(day_data["high"])
            })
        #self._cached_data[city] = forecast
        return forecast


class CityInfo:

    def __init__(self, city, forecast_provider=None):
        self.city = city.lower()
        self._forecast_provider = forecast_provider or YahooWeatherForecast()

    def weather_forecast(self):
        return self._forecast_provider.get(self.city)


def _main():
    city = CityInfo(sys.argv[1])
    forecast = city.weather_forecast()
    pprint.pprint(forecast)


if __name__ == "__main__":
    _main()
```

```
[{'date': datetime.datetime(2017, 9, 5, 0, 0), 'high_temp': 18},
 {'date': datetime.datetime(2017, 9, 6, 0, 0), 'high_temp': 28},
 {'date': datetime.datetime(2017, 9, 7, 0, 0), 'high_temp': 33},
 {'date': datetime.datetime(2017, 9, 8, 0, 0), 'high_temp': 33},
 {'date': datetime.datetime(2017, 9, 9, 0, 0), 'high_temp': 34},
 {'date': datetime.datetime(2017, 9, 10, 0, 0), 'high_temp': 30},
 {'date': datetime.datetime(2017, 9, 11, 0, 0), 'high_temp': 22},
 {'date': datetime.datetime(2017, 9, 12, 0, 0), 'high_temp': 18},
 {'date': datetime.datetime(2017, 9, 13, 0, 0), 'high_temp': 23},
 {'date': datetime.datetime(2017, 9, 14, 0, 0), 'high_temp': 26}]
```

In [ ]: