

# Flight Ticket Booking

GD Airline has three return flights from Xi'an to Chengdu everyday. The following is the flight information:

| FLIGHT | SCHED | FROM  | TO      |
|--------|-------|-------|---------|
| GD2501 | 08:00 | Xi'an | Chengdu |
| GD2606 | 12:25 | Xi'an | Chengdu |
| GD8732 | 19:30 | Xi'an | Chengdu |

| FLIGHT | SCHED | FROM    | TO    |
|--------|-------|---------|-------|
| GD2502 | 12:00 | Chengdu | Xi'an |
| GD2607 | 16:25 | Chengdu | Xi'an |
| GD8733 | 23:30 | Chengdu | Xi'an |

The flight price varies depending on when the passenger takes off and whether he/she is a reward customer. See the price information as below:

| FLIGHT | WEEKDAYS<br>Regular | WEEKDAYS<br>Reward | WEEKENDS<br>Regular | WEEKENDS<br>Reward |
|--------|---------------------|--------------------|---------------------|--------------------|
| GD2501 | ¥1100               | ¥800               | ¥900                | ¥500               |
| GD2606 | ¥1600               | ¥1100              | ¥600                | ¥500               |
| GD8732 | ¥2200               | ¥1000              | ¥1500               | ¥400               |
| GD2502 | ¥1700               | ¥800               | ¥900                | ¥800               |
| GD2607 | ¥1600               | ¥1100              | ¥600                | ¥500               |
| GD8733 | ¥1600               | ¥1500              | ¥1000               | ¥400               |

Please help the passenger find the lowest price package, based on passenger type, departure time and return time.

If the prices are the same, choose the flight prior to its take-off time.  
Any take-off time close to 12:00 PM will be preferred.

## Input and Output Format:

```
INPUT FORMAT
<CUSTOMER_TYPE>, <DEPARTING_DATE>, <RETURNING_DATE>
OUTPUT FORMAT
<DEPARTING_FLIGHT>
<RETURNING_FLIGHT>
```

## Example Input and Output:

Example 1:

```
INPUT:
REWARD, 20160410SUN, 20160420WED
OUTPUT:
GD2606
GD2502
```

Example 2:

```
INPUT:
REGULAR, 20160415FRI, 20160418MON
OUTPUT:
GD2501
GD2607
```

### **NOTE:**

**These examples are only used to show the input/output format. They might not be the correct results.**