It’s your first day on the job and an analyst has given you a set of closing stock quotes for RIL. She would like you to give her a report showing the closing data, closing price, 10-day moving average, 30-day moving average, and signal.

The signal is either “Over” or “Below” depending on whether the 10-day moving average is greater than or less than the 30-day moving average respectively.

Input

|  |  |
| --- | --- |
| Market Date | Closing Price |
| 07-07-2015 | 51.38 |
| 08-07-2015 | 52.3 |
| 09-07-2015 | 52.59 |
| 10-07-2015 | 53.21 |
| 11-07-2015 | 53.51 |
| 12-07-2015 | 53.74 |

write spark code or HQL to print the below output.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Market Date | Closing Price | MA10 | MA30 | TradeSignal |
| 07-07-2015 | 51.38 | 50.641 | 51.1553 | below |
| 08-07-2015 | 52.3 | 50.68 | 51.1613 | below |
| 09-07-2015 | 52.59 | 50.956 | 51.1847 | below |
| 10-07-2015 | 53.21 | 51.434 | 51.2143 | over |
| 11-07-2015 | 53.51 | 51.841 | 51.2313 | over |
| 12-07-2015 | 53.74 | 52.161 | 51.261 | over |