



EDA on **Dmart Store**



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INTRODUCTION



- DMart, is an Indian retail corporation that operates a chain of hypermarkets in India.
- It was founded by Radhakrishna Damani in 2002
- Its first store was opened in Powai, Mumbai. As of June 2023, it has 330 stores across 14 states in India.

EDA on Dmart Store

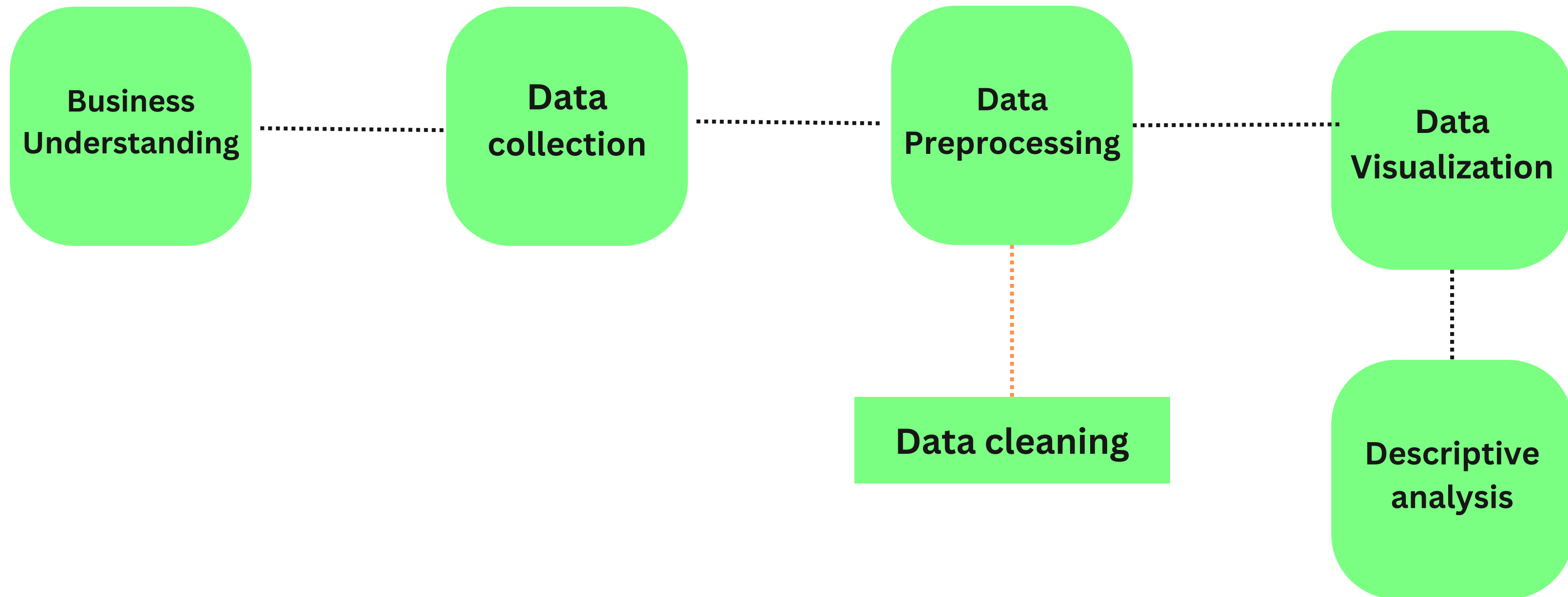
The EDA consists of 09 columns. Here we have 09 features using this we start data analysis of Dmart Store

This data set consists of information: .

- **Name**
- **Brand**
- **Price**
- **Discounted**
- **Price**
- **Category**
- **Subcategory**
- **Quantity**
- **Description**



SYSTEM DESIGN



IMPLEMENTATION

Required Libraries to be imported :

```
import numpy as np
```

```
import pandas as pd
```

```
import seaborn as sns
```

```
import matplotlib.pyplot as plt
```


DATA PREPROCESSING

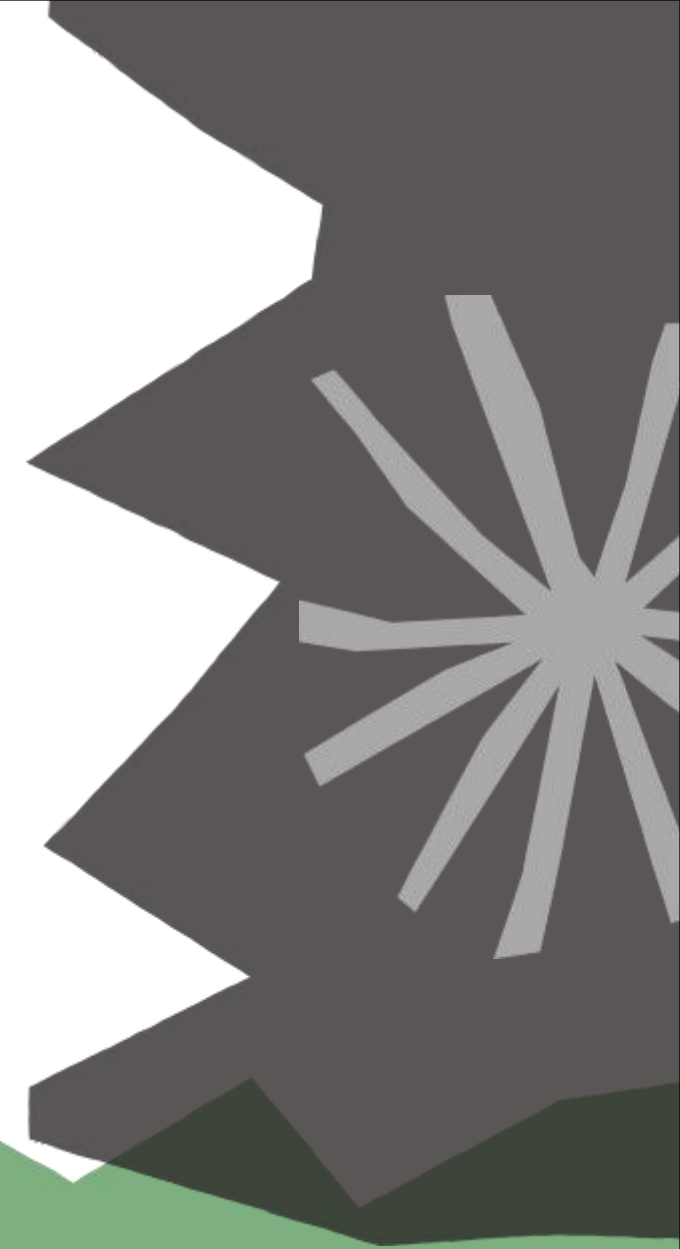
Loading Data:

```
df=pd.read_csv("G:\datascience\layoffs_data.csv")
```

Shape Of Dataframe

df.shape

o\p
(2738, 14)



DATA CLEANING

Checking for missing values

```
#code
df.isnull().sum()
```

Name	1
Brand	400
Price	1
DiscountedPrice	1
Category	3
SubCategory	3
Quantity	1
Description	2
BreadCrumbs	3


```
In [8]: 1 dm['Name']=dm['Name'].fillna("Kitchen Appliance")
        2 dm['Brand']=dm['Brand'].fillna('Local/Unknown')
        3 dm[dm['Price'].isnull()==True]
```

Out[8]:

	Name	Brand	Price	DiscountedPrice	Category	SubCategory	Quantity	Description	BreadCrumbs
4323	Elle 18 Nail Pops Nail Colour - Shade 125	Elle 18	NaN	NaN	Personal Care	Personal Care/Nail Care	5 ml	NaN	Personal Care > Personal Care/Nail Care

```
In [9]: 1 dm['Category'] = dm['Category'].fillna('Home & Kitchen')
        2 dm['SubCategory'] = dm['SubCategory'].fillna('Home Appliances')
        3 dm['BreadCrumbs']=dm['BreadCrumbs'].fillna('Home & Kitchen > Cookware & Serveware')
        4 dm[dm.Quantity.isnull()==True]
```

Out[9]:

	Name	Brand	Price	DiscountedPrice	Category	SubCategory	Quantity	Description	BreadCrumbs
5047	Zeel MT212 Men's Raincoat - Navy Blue : Size XXL	Zeel	1199.0	1049.0	Raincoat	Raincoat	NaN	Specifications- Material : Fabric- Colour : Na...	Raincoat

```
In [10]: 1 dm['Quantity'] = dm['Quantity'].fillna('Size XXL')
         2 dm['Description'] = dm['Description'].fillna('No Description')
```

```
In [11]: 1 dm['Price']=dm['Price'].fillna(dm['Price'].mean())
```

```
In [12]: 1 dm['DiscountedPrice']=dm['DiscountedPrice'].fillna(dm['DiscountedPrice'].mean())
```

```
In [13]: 1 dm.isna().sum()
```

Out[13]:

Name	0
Brand	0
Price	0
DiscountedPrice	0
Category	0
SubCategory	0
Quantity	0
Description	0
BreadCrumbs	0
dtype:	int64

End of data cleaning

End of Data Preprocessing

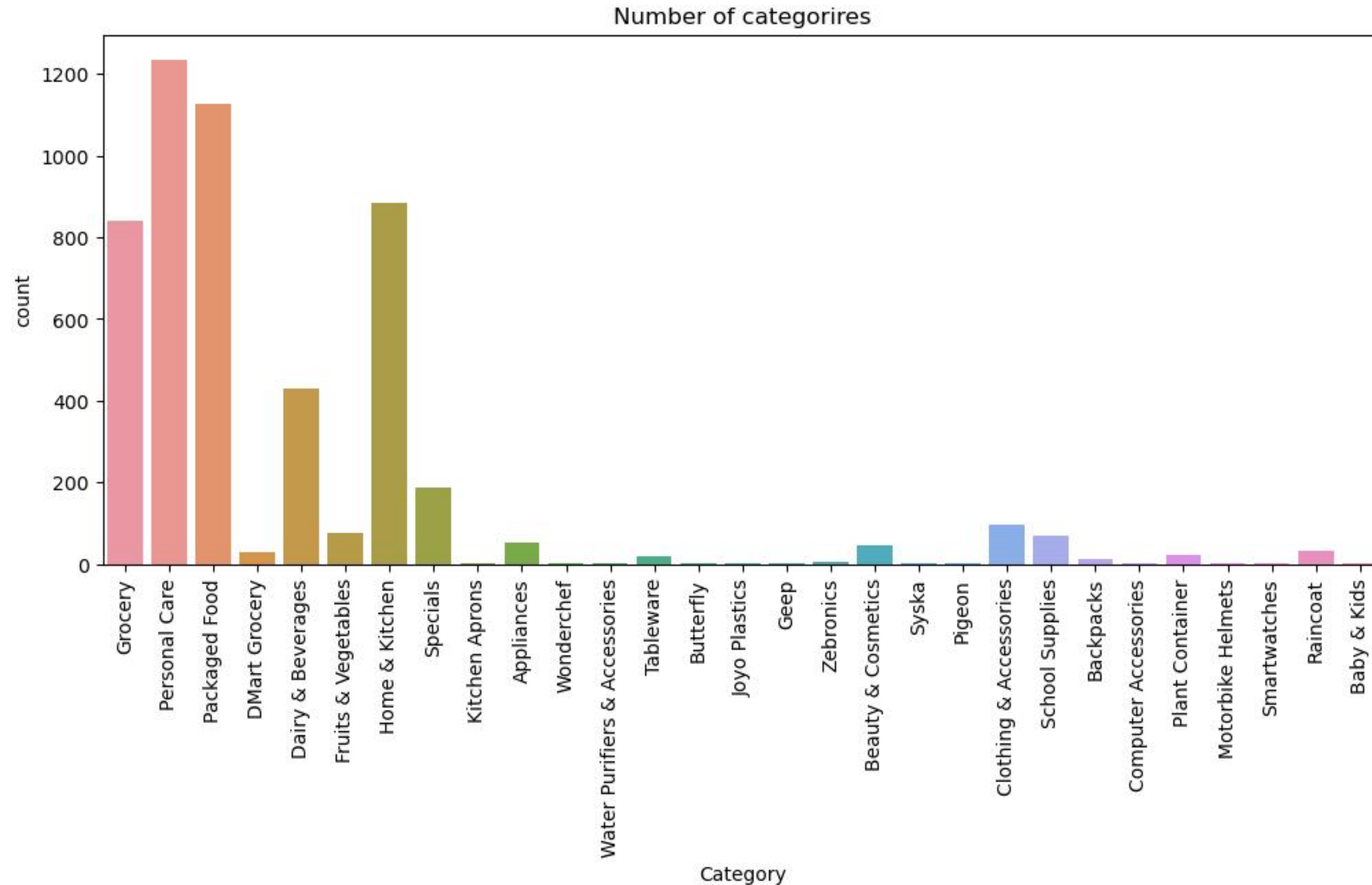




EXPLORATORY DATA ANALYSIS

Q1.

what are the number of categories present in dmart?

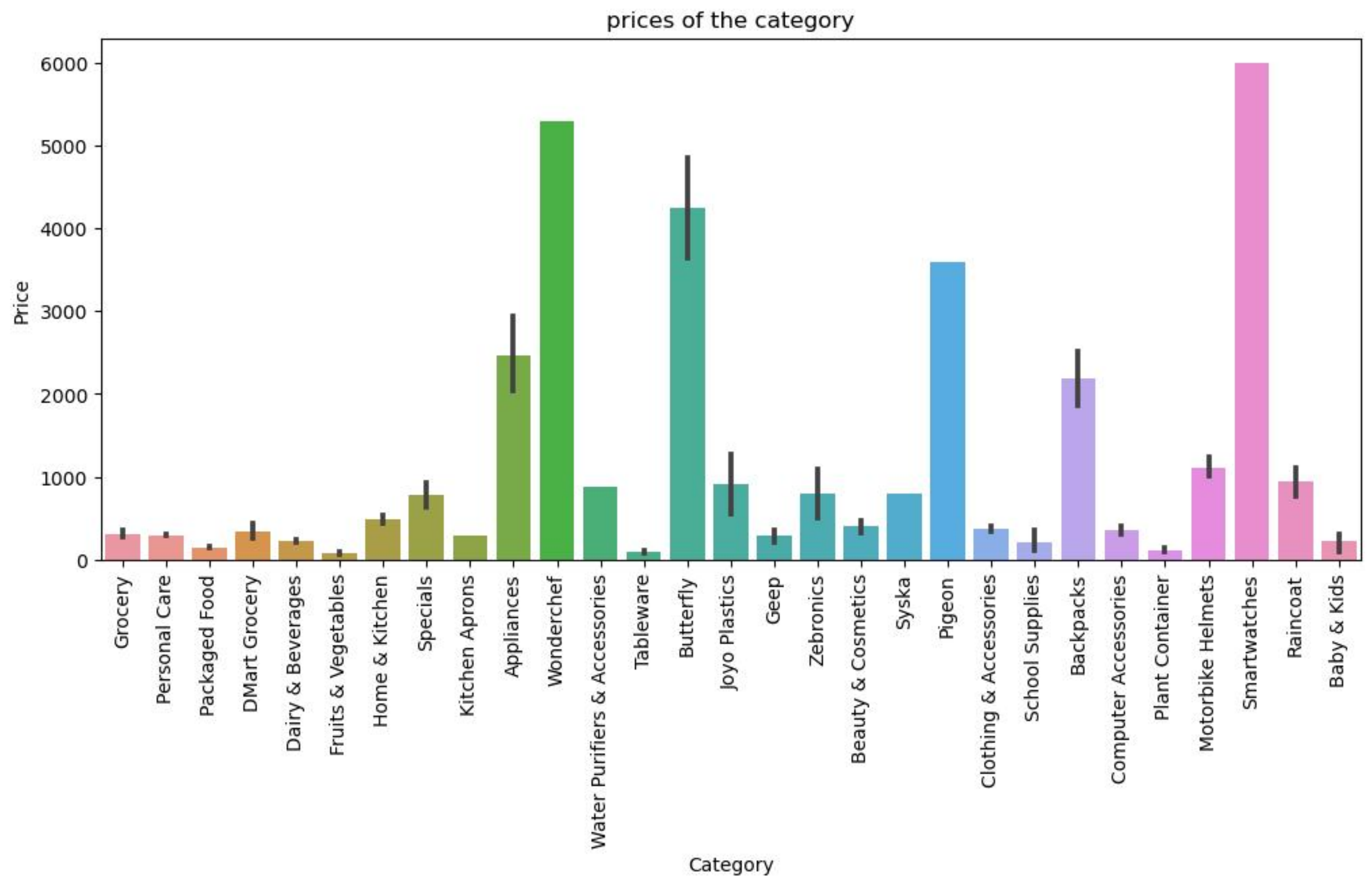


Personal care is
the highest
Category
Present in dmart



Q2.

what are the different prices of the categories in dmart?

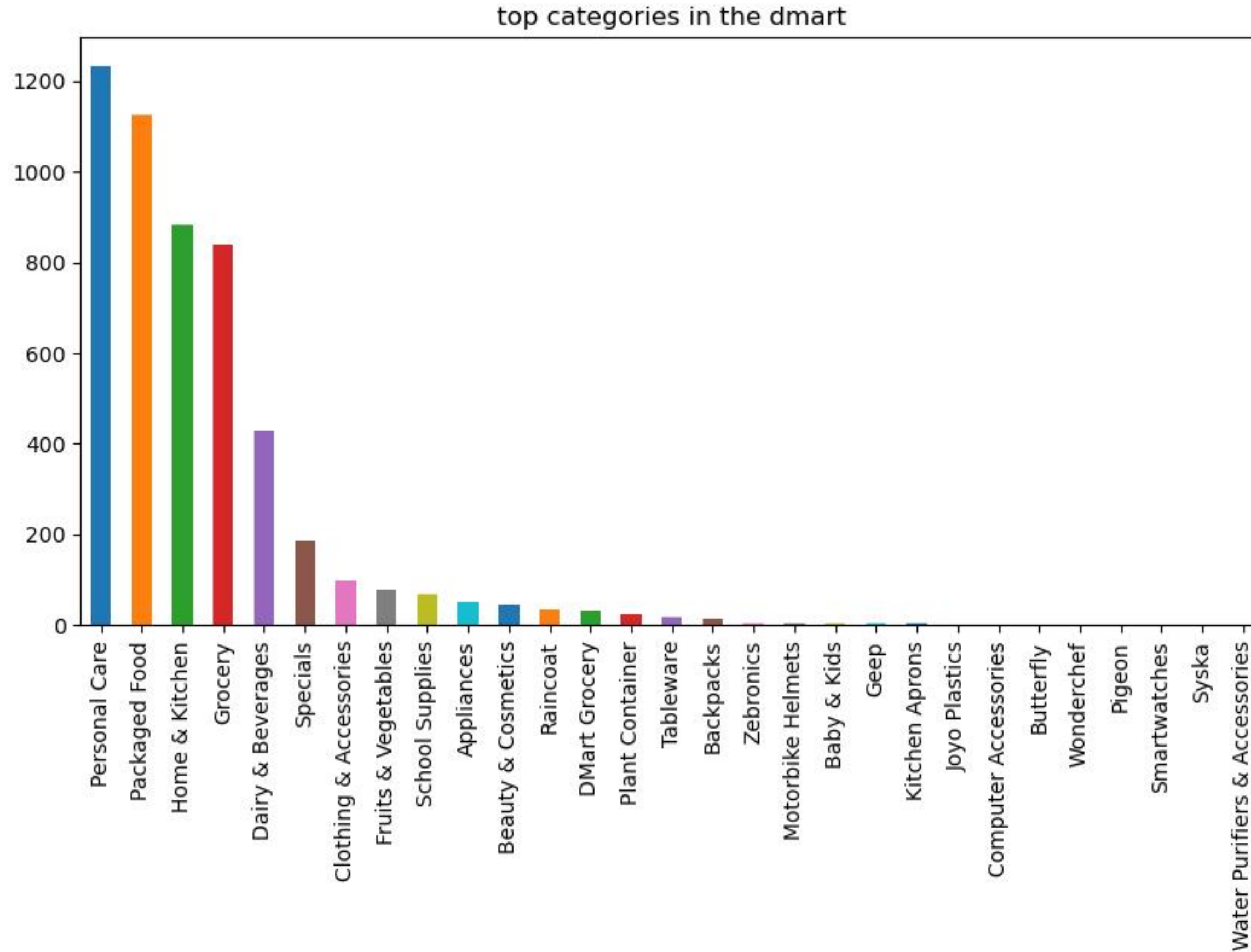




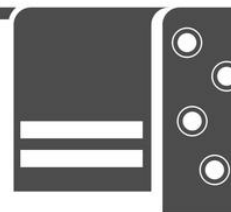
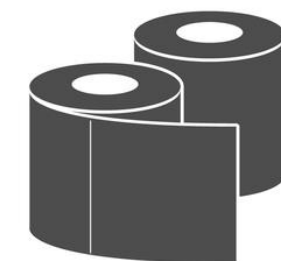
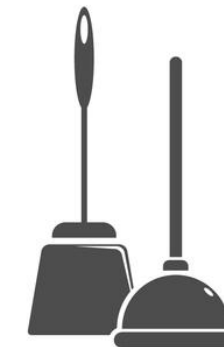
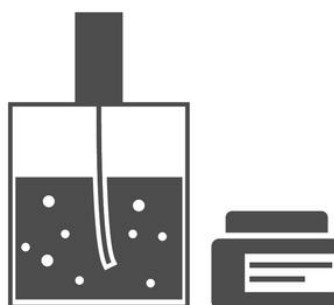
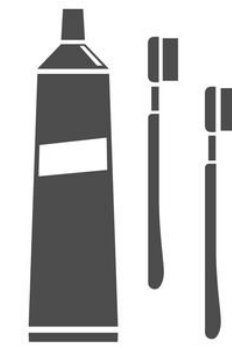
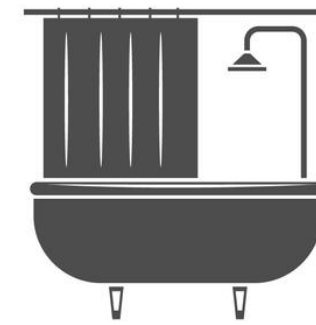
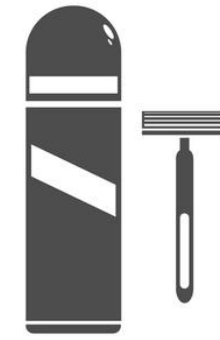
**In Dmart smartwatch
category has the
highest price**

Q3.

what are the top categories present in dmart?



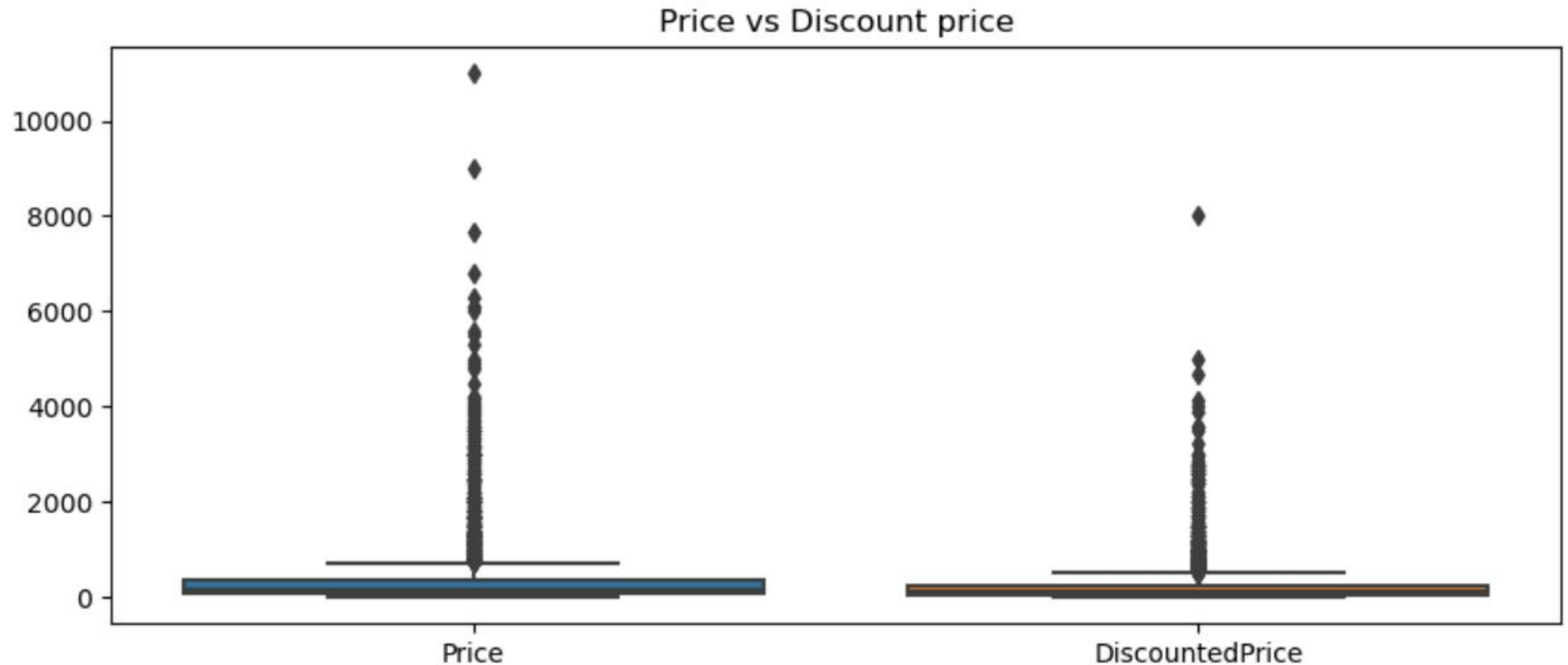
Personal care is
the highest
Category
Present in dmart



PERSONAL CARE

Q4.

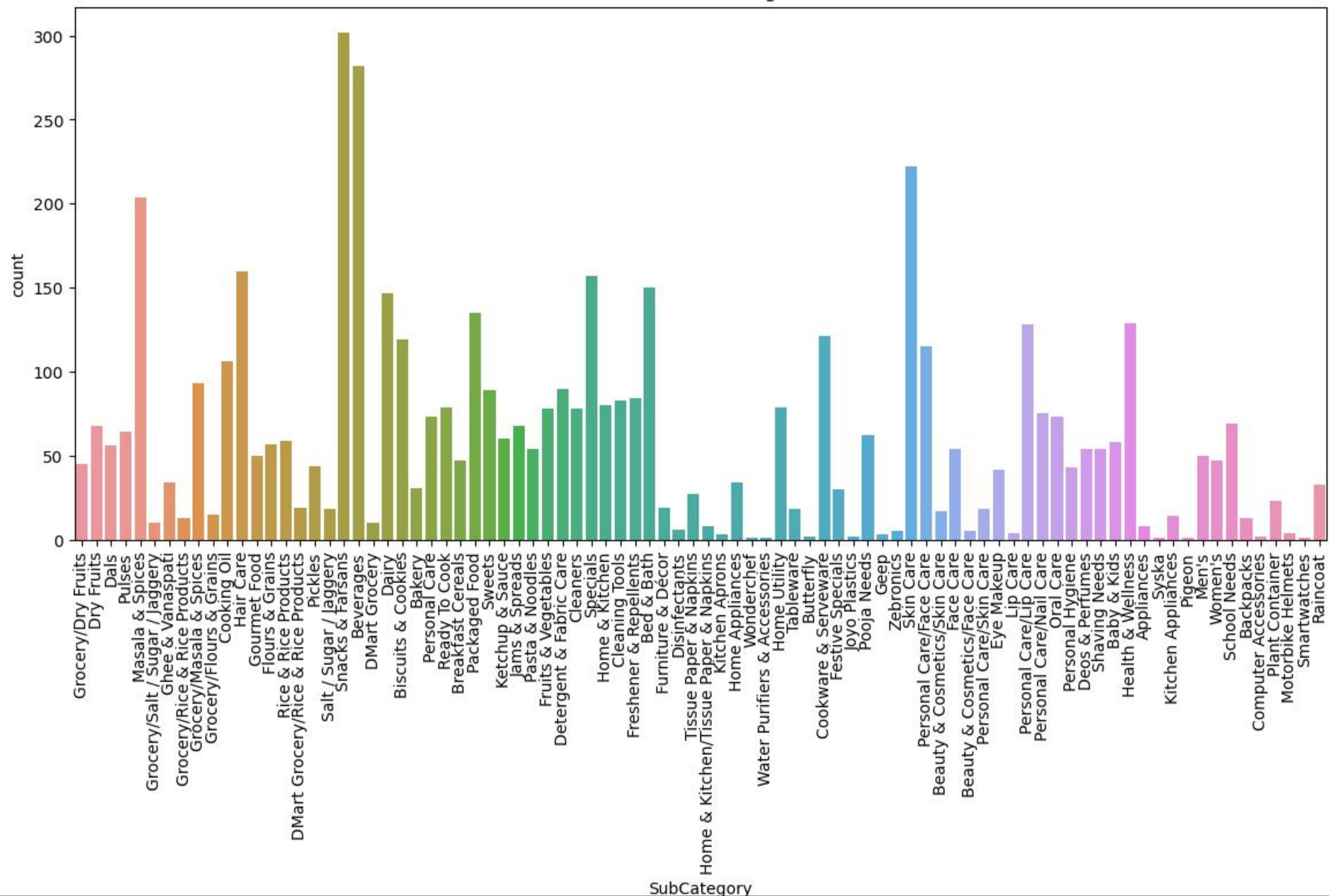
what is the price vs discounted price in dmart?



Q5.

**what are the list of the
subcategories present
in the dmart?**

Total list of subcategories

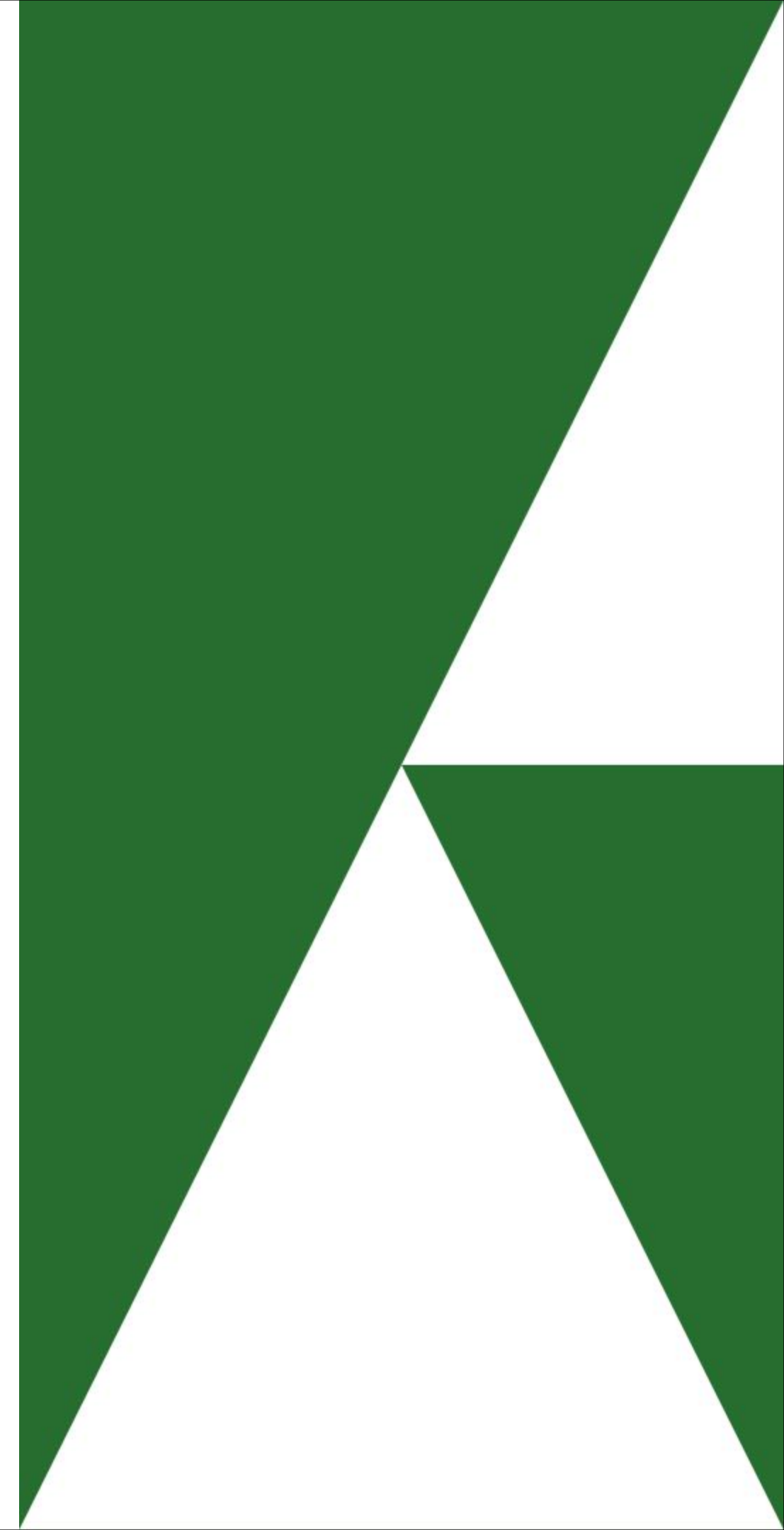


Subcategory in dmart

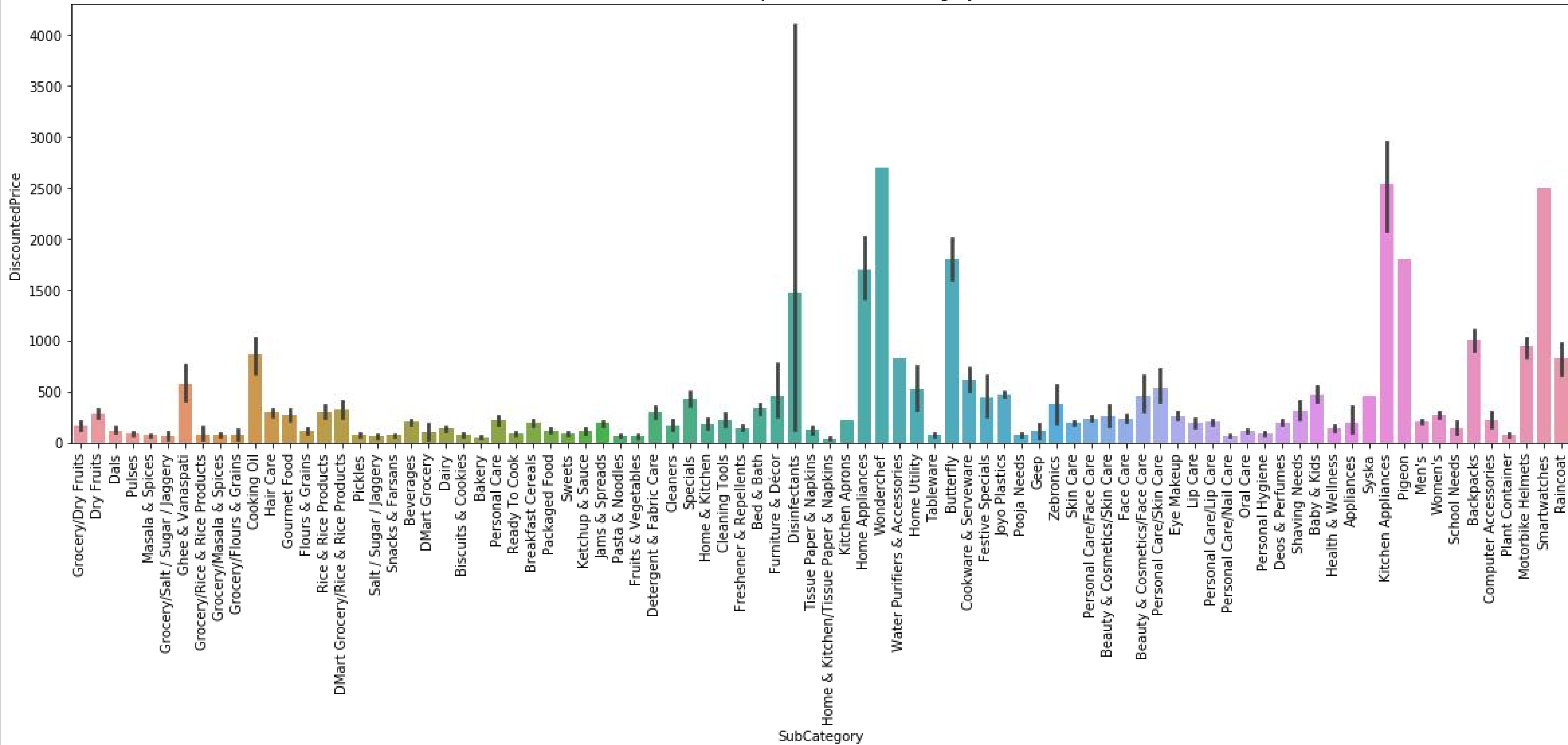
Snacks and Farsans is the highest
subcategory followed by Beverages



Q6.
What is the
discounted price
of the
subcategories in
the dmart?



Discounted price of each sub category

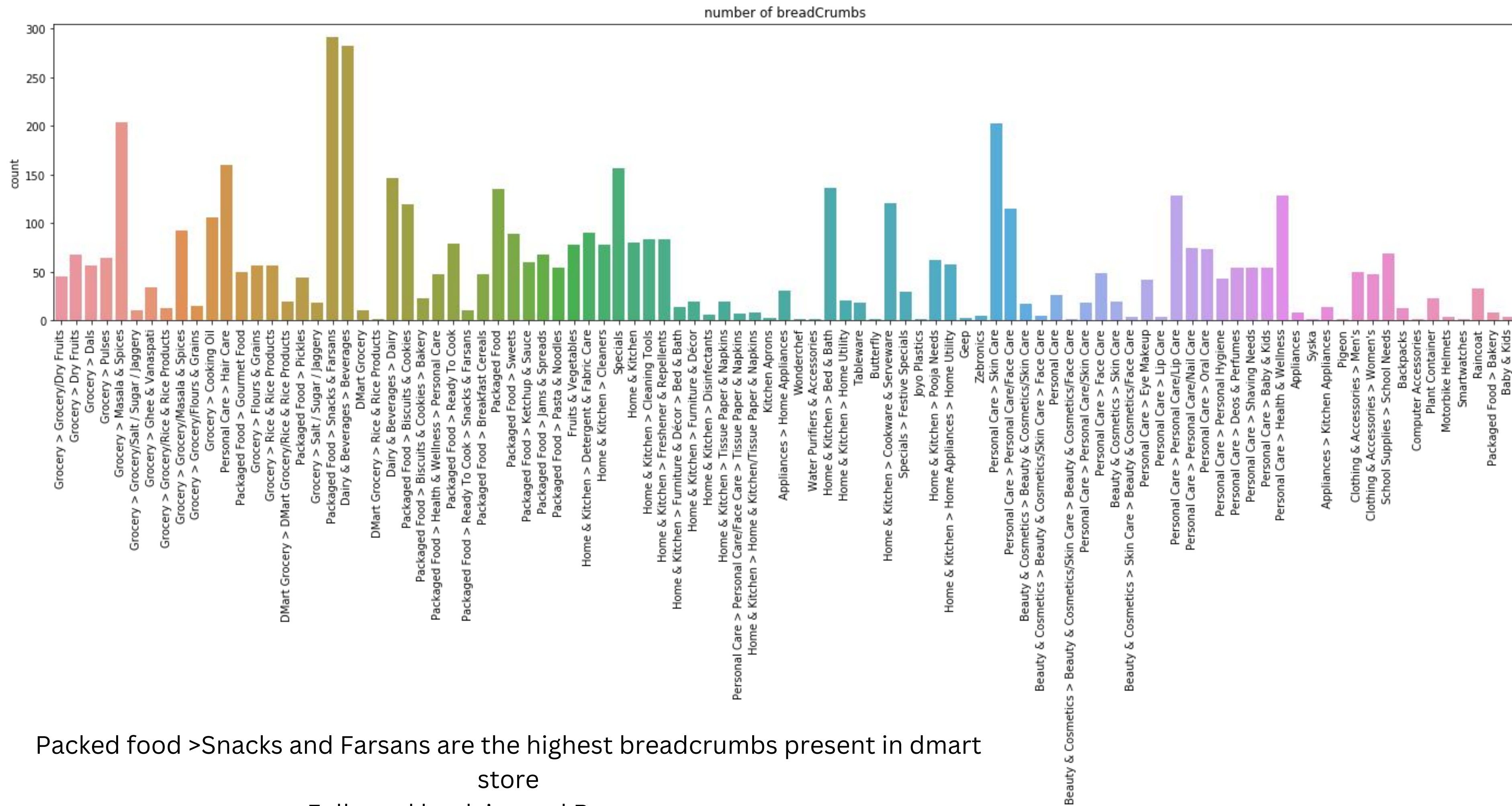


DISCOUNTED PRICE OF THE SUBCATEGORIES IN THE DMART

Highest Discounted Subcategory is
Disinfectants



**Q7. What is the breadcrumbs
present in the dmart?**



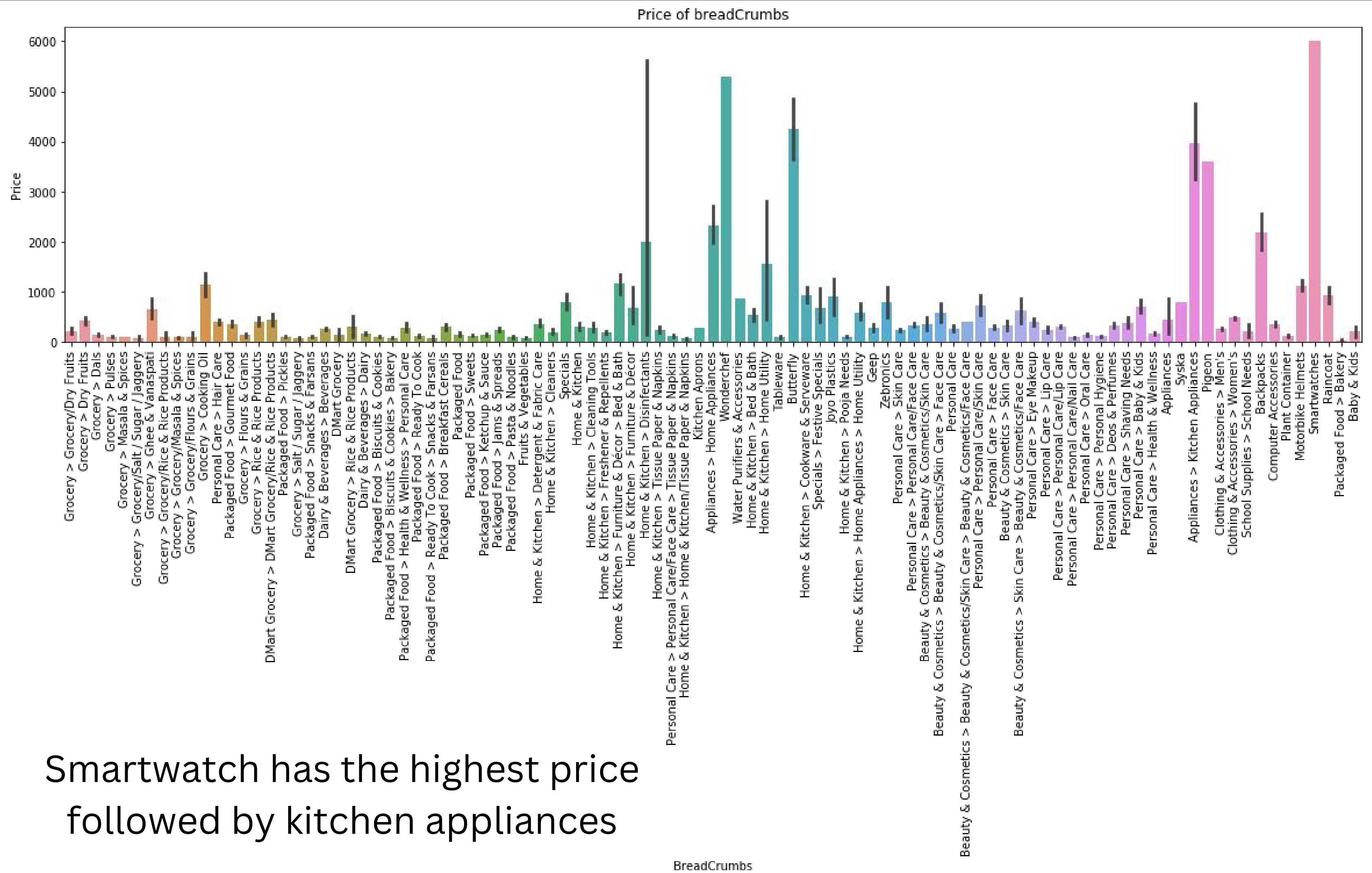
Packed food >Snacks and Farsans are the highest breadcrumbs present in dmart store

Followed by dairy and Bevereages



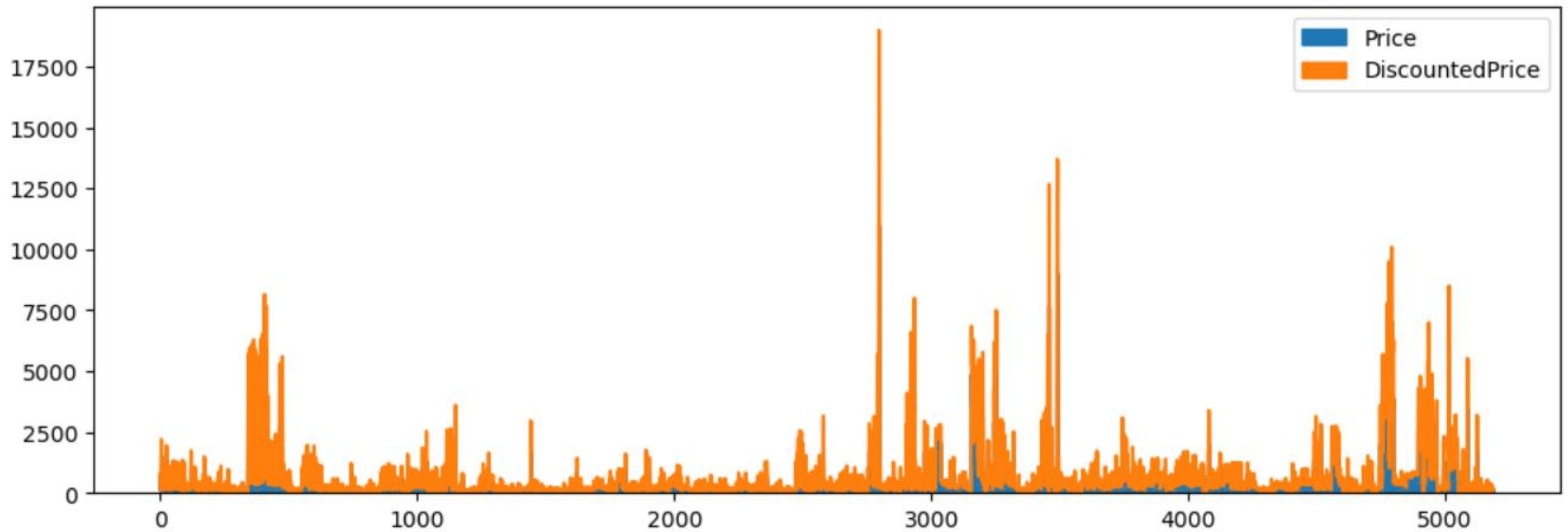
**Q8. What are the prices of the breadcrumbs in
dmart?**





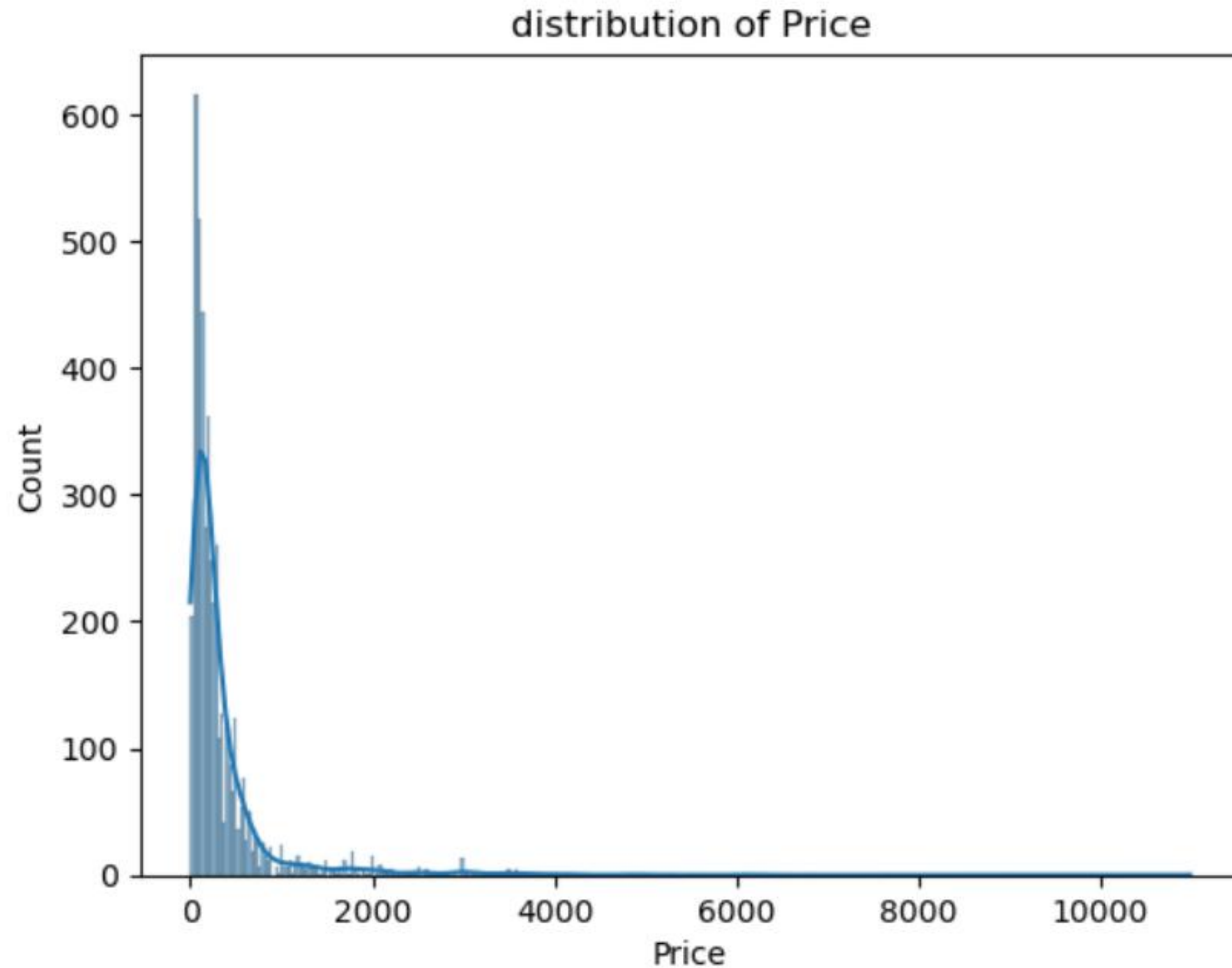
Q9.

What is the comparison of price vs discount price in dmart?



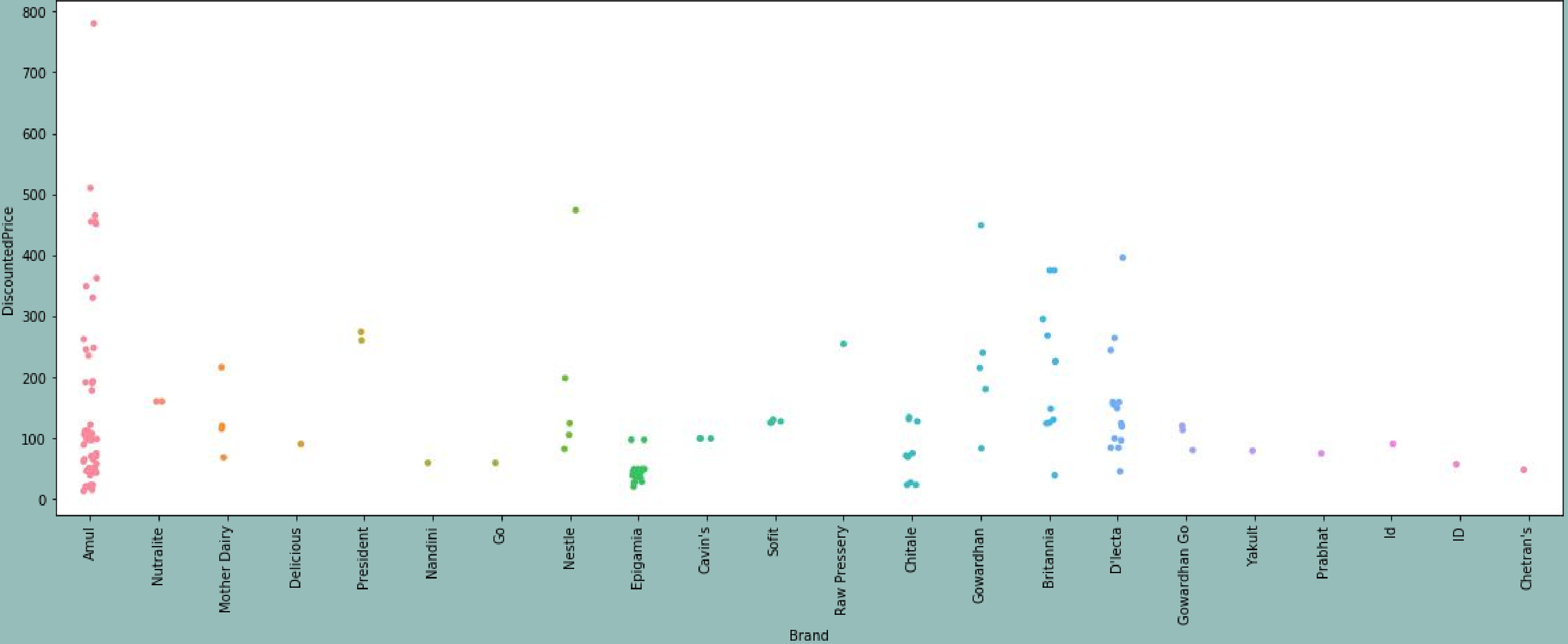
Q10.

What is the price distribution in dmart?



Q11.

Now i wish to see for Category Dairy's Discounted Price

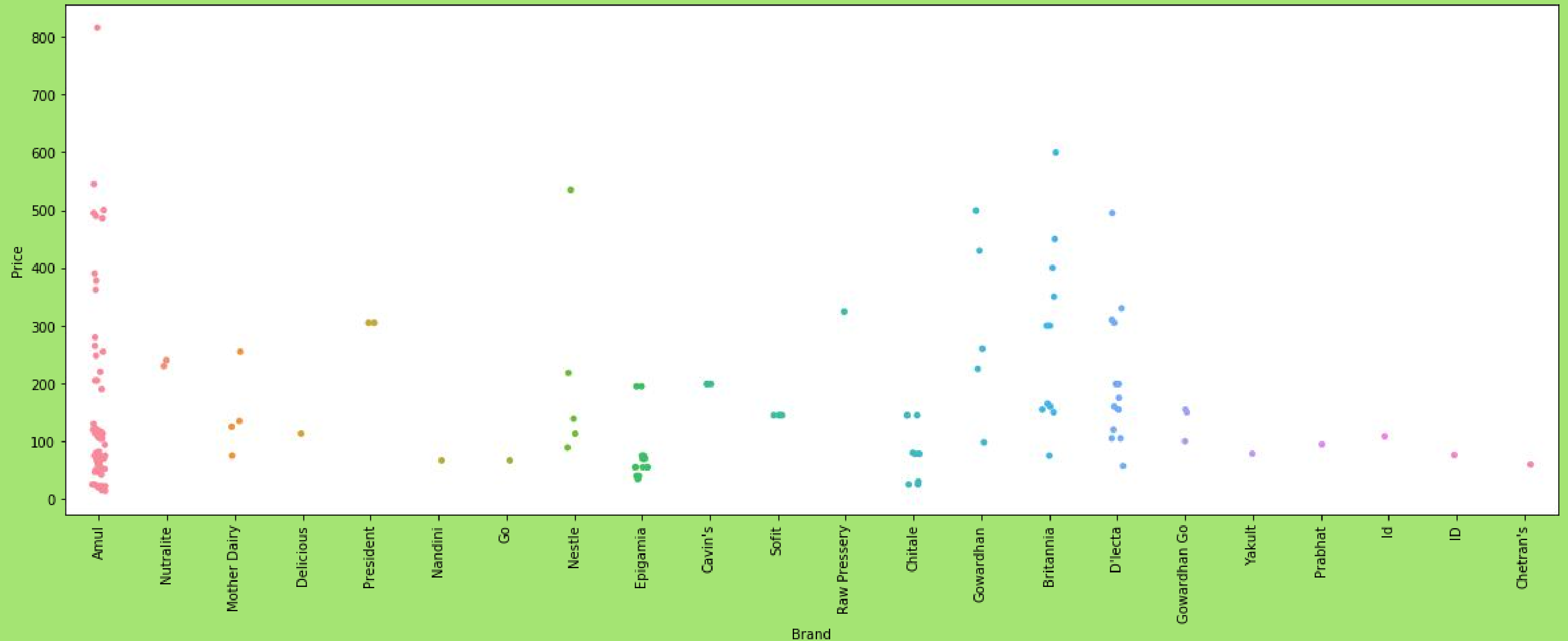




Amul dairy product has the highest discounted price

Q12.

Now I wish to see for Category Dairy's Price





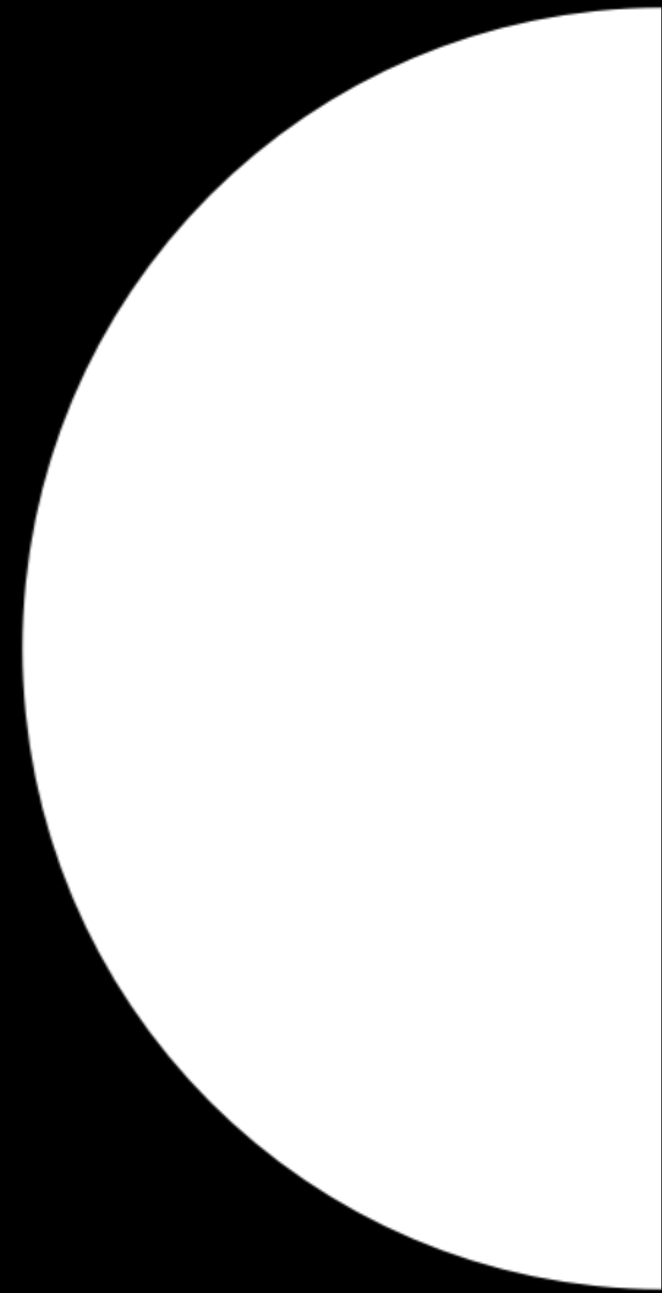
**Amul dairy
product has the
highest price
followed by
Britannia product**

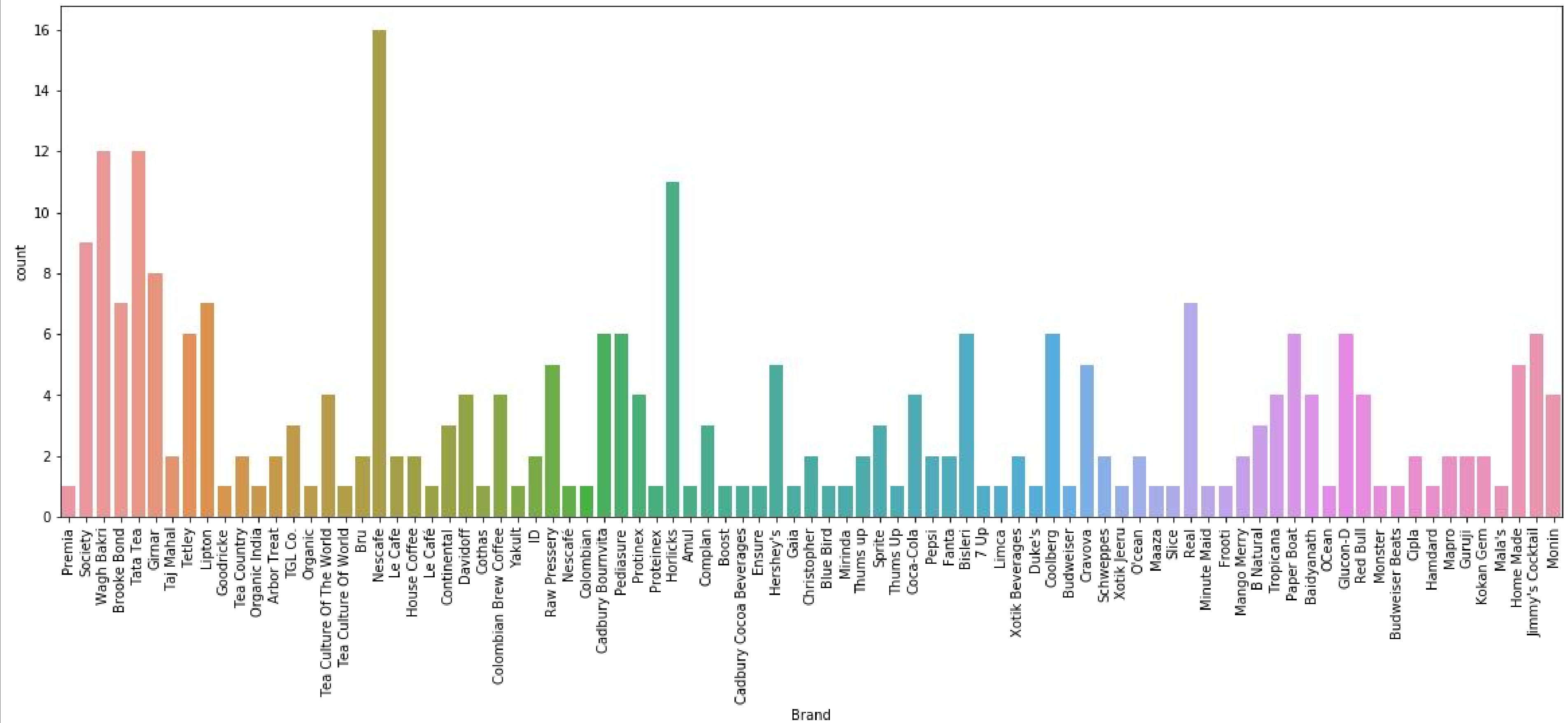
BRITANNIA



Q13.

**Count of
each brand in
Subcategory
Beverages**



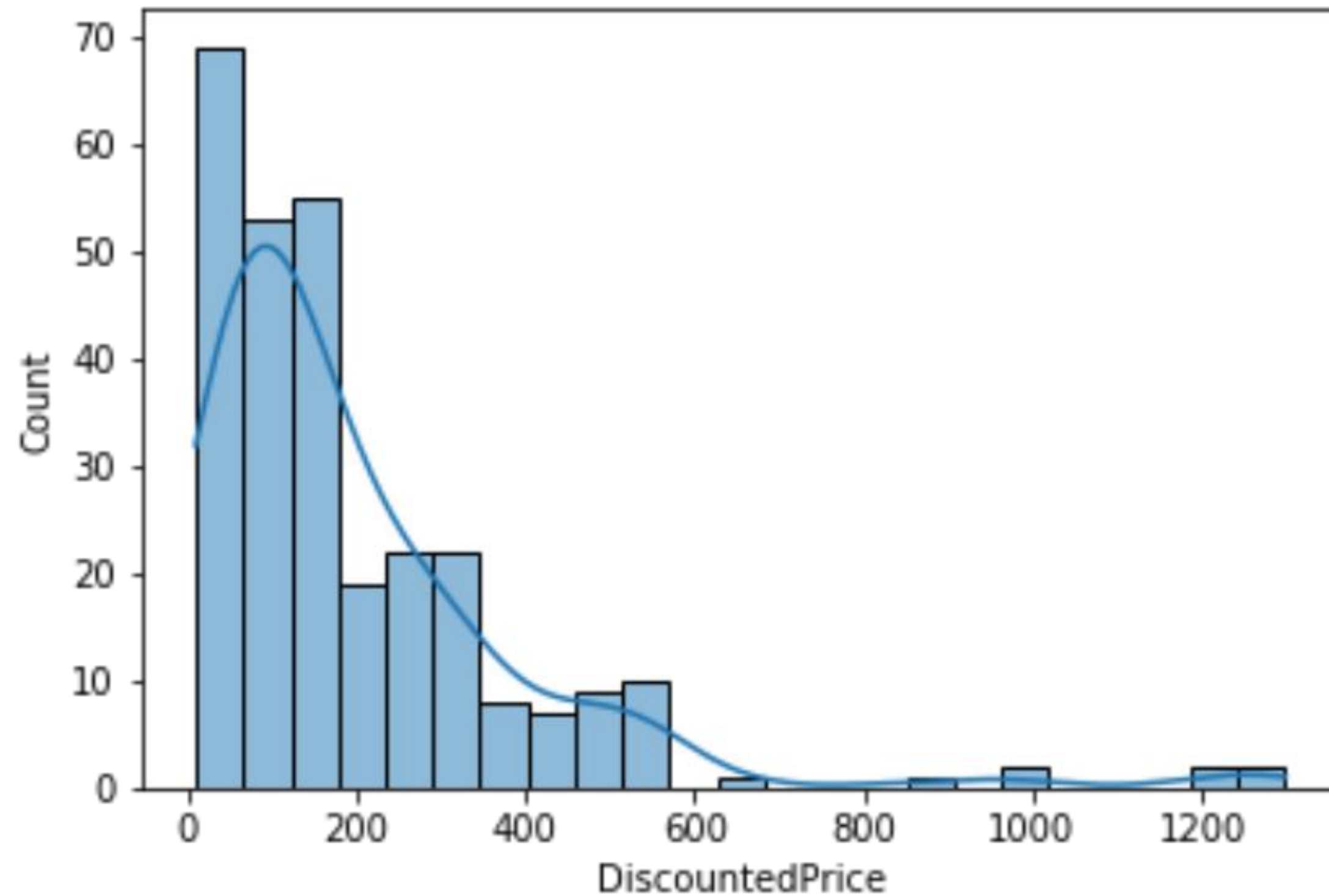


Nescafe product is highest Beverage subcategory



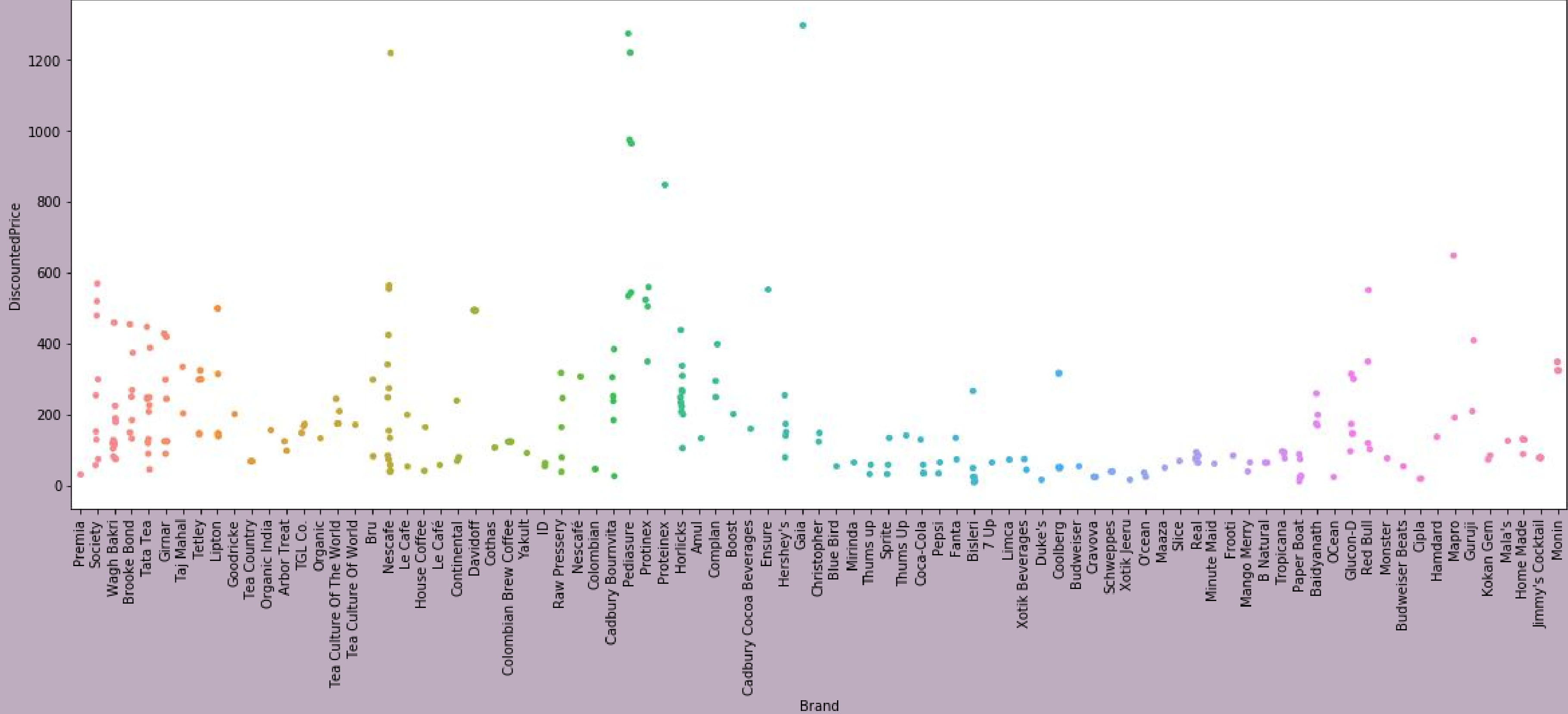
Q14.

Beverages and Discounted Price



Q15.

Beverages Brand and Discounted Price





Abbott

NO. 1
PEDIATRICIAN PRESCRIBED*
BRAND

PediaSure

37
NUTRIENTS

2+

PediaSure
COMPLETE, BALANCED NUTRITION TO HELP KIDS GROW
HIGH QUALITY PROTEIN

37 Essential Nutrients To Support:
Height & Weight Gain, Immune Function, Brain Development

FOOD FOR SPECIAL DIETARY USE
*Based on prescribing trends

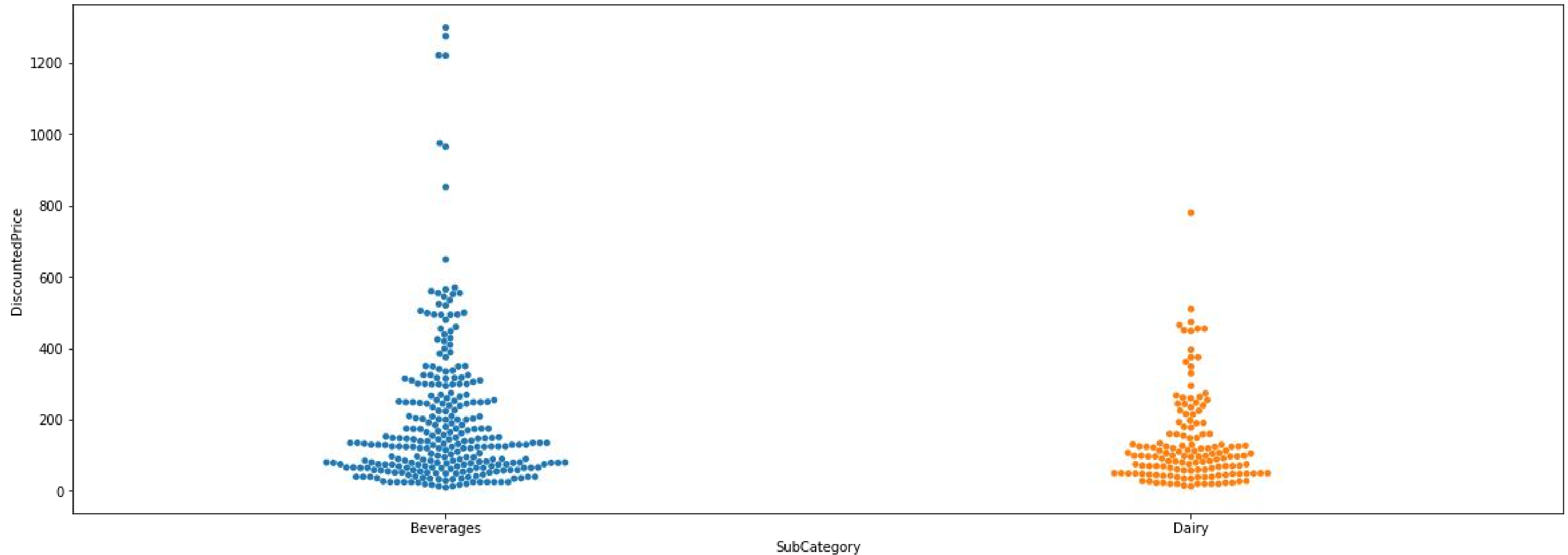
NET WEIGHT 400 g

Premium Chocolate
FLAVOR

Hershey's has the highest discounted price followed by PediaSure

Q16.

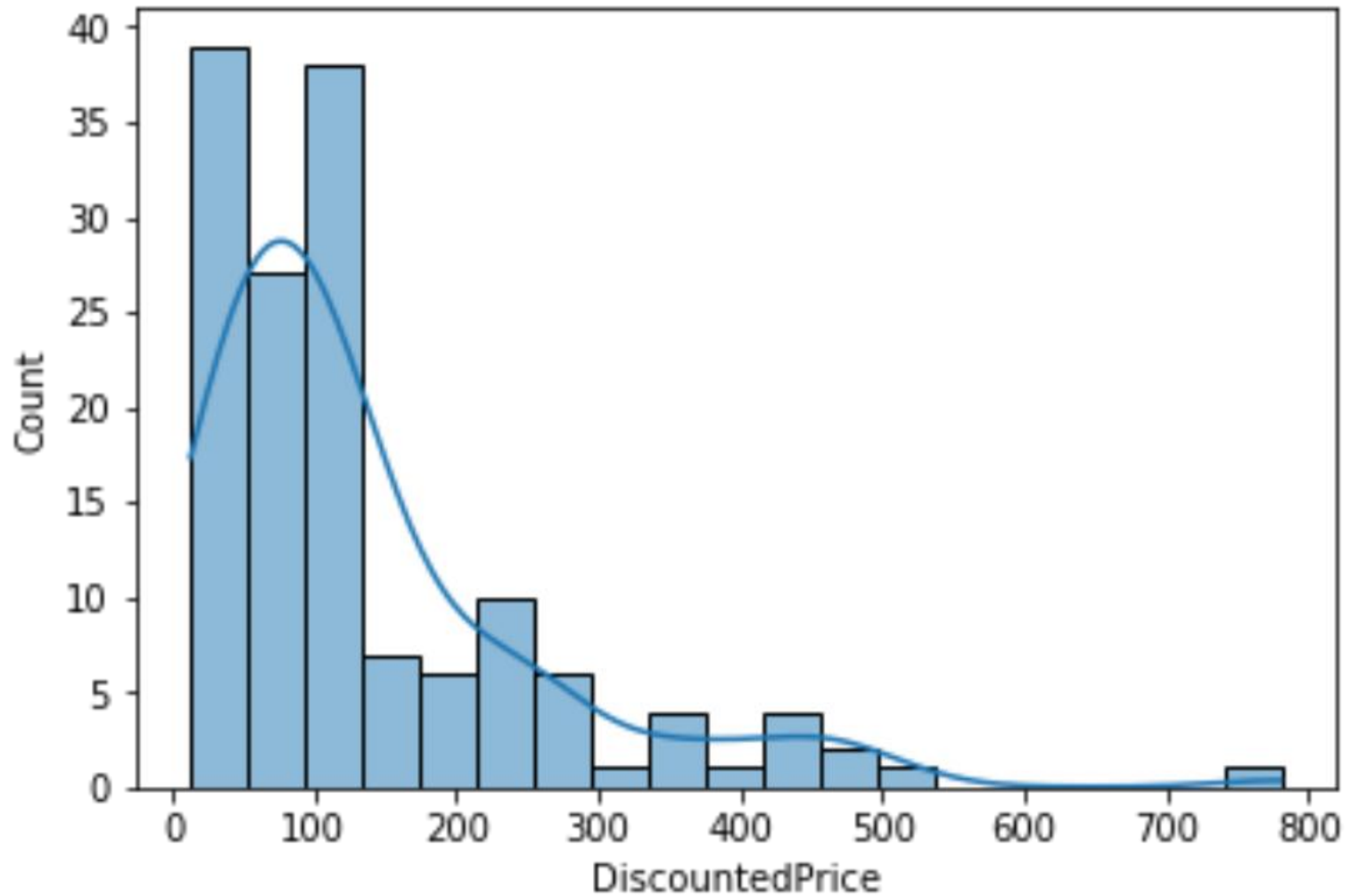
Variations of Discounted Price between two Subcategories



**Among 2 subcategories which is Beverages and Dairy,
Beverages has the highest discounted price**

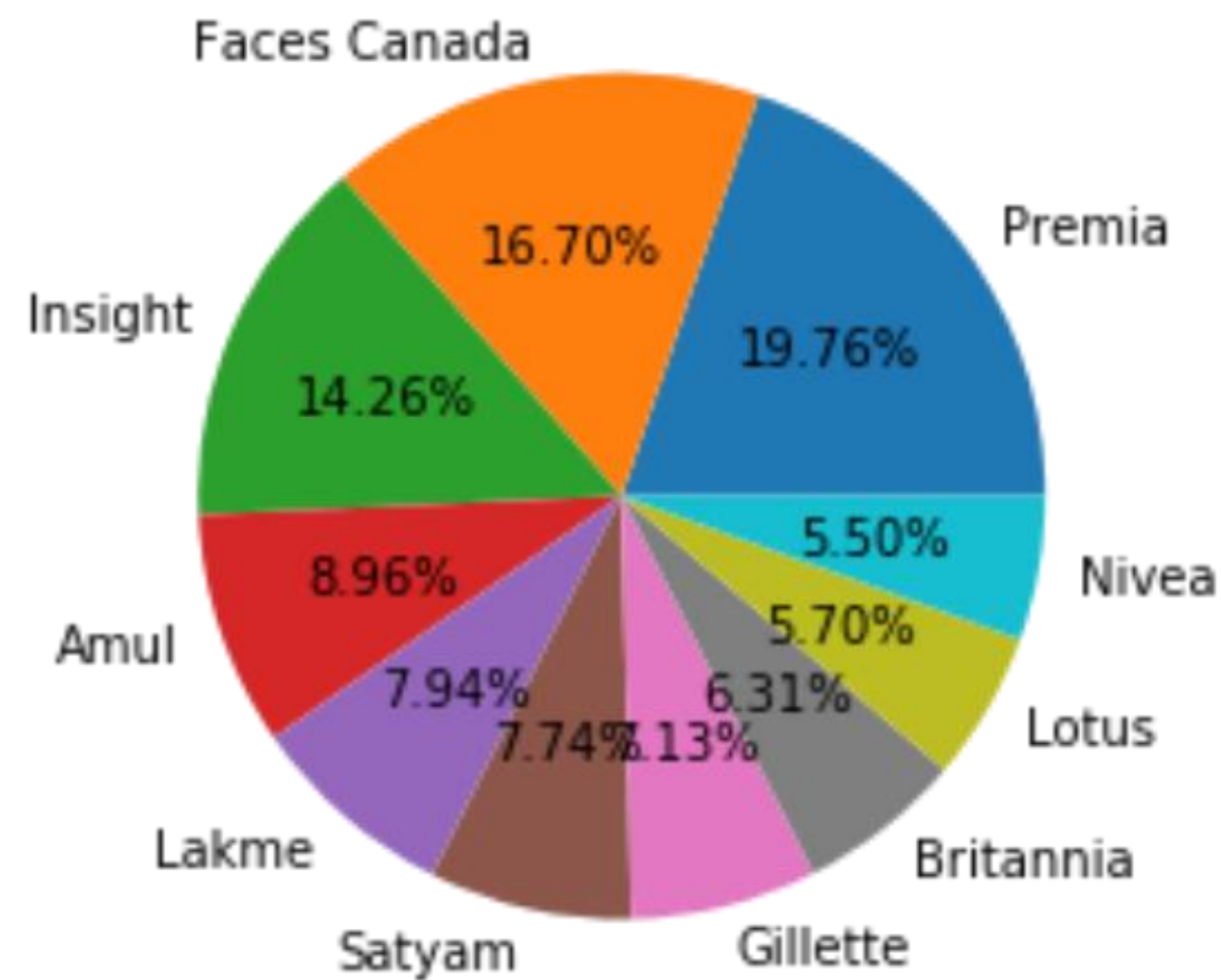
Q17.

Dairy and Discounted Price



Q18.

Personal Care Subcategory



FACES
CANADA



Faces canada is the second highest product in personal care subcategory

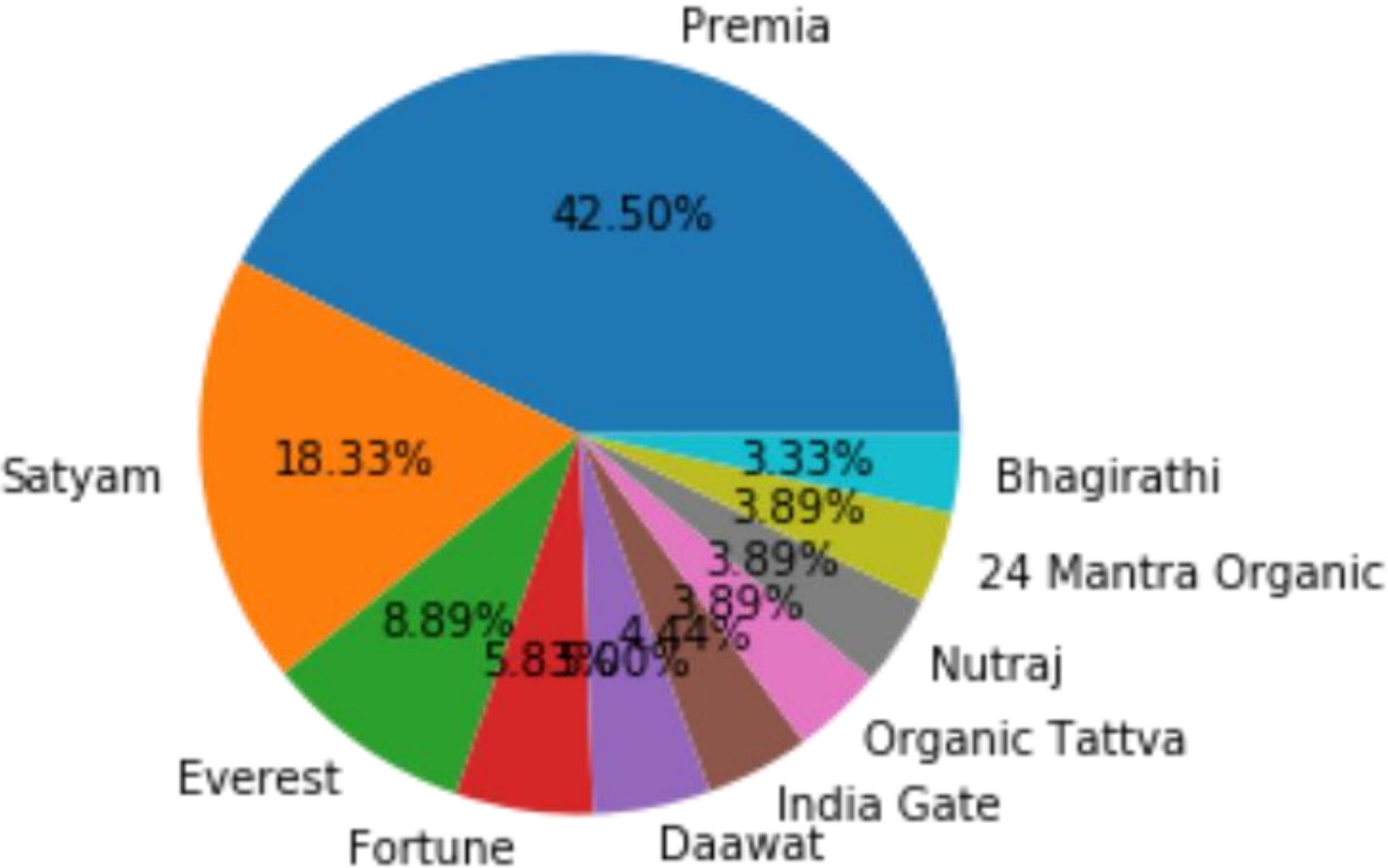
The least product is Nivea product



Premia Product is more compared to other products in Subcategory Personal Care

Q19.

Grocery Subcategory





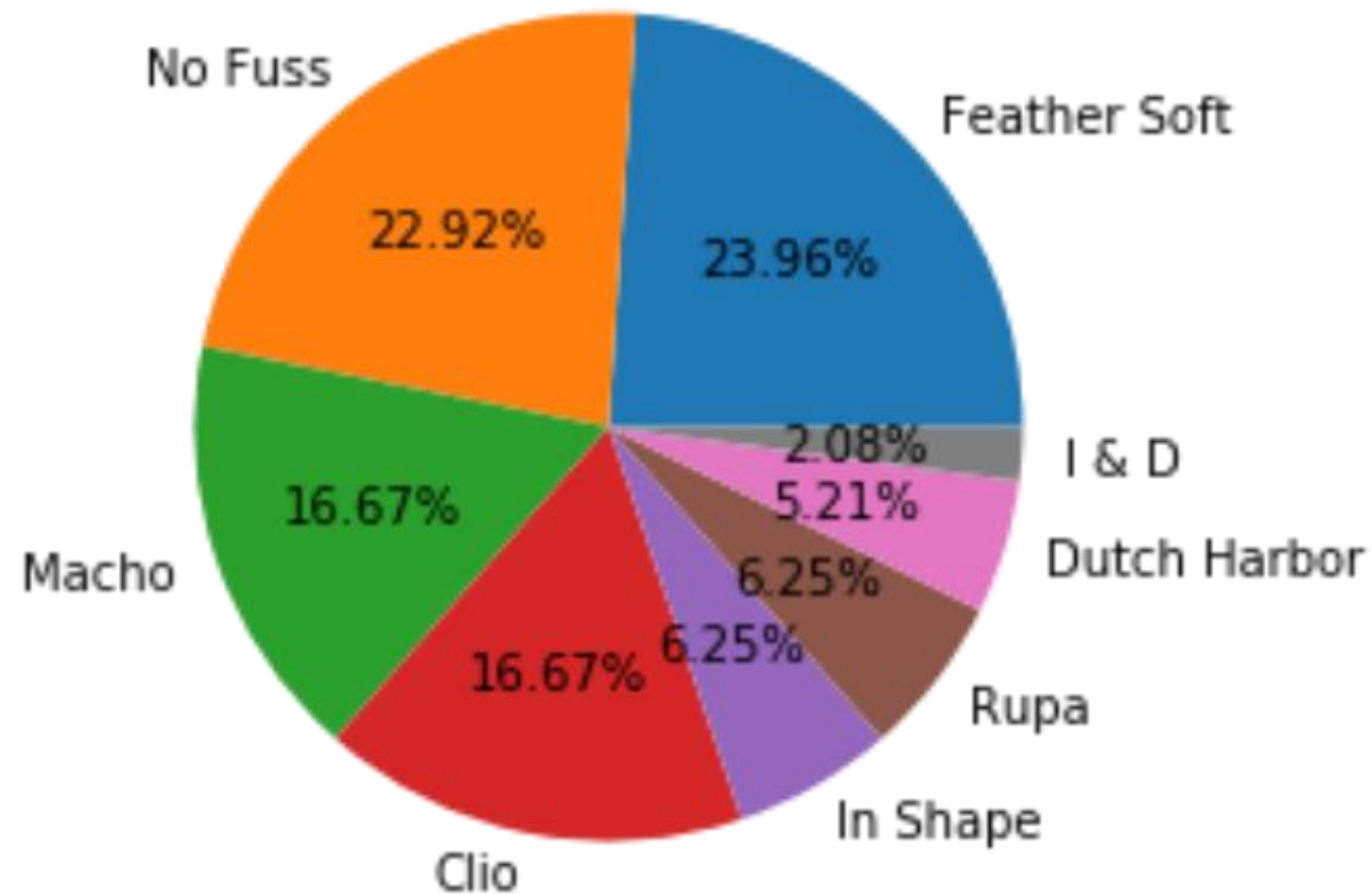
Premia Grocery has the highest product present in Grocery Subcategory



Satyam Grocery is the second highest product and the least product is Bhagirathi product in Grocery Subcategory

Q20.

Clothing and Accessories Subcategory

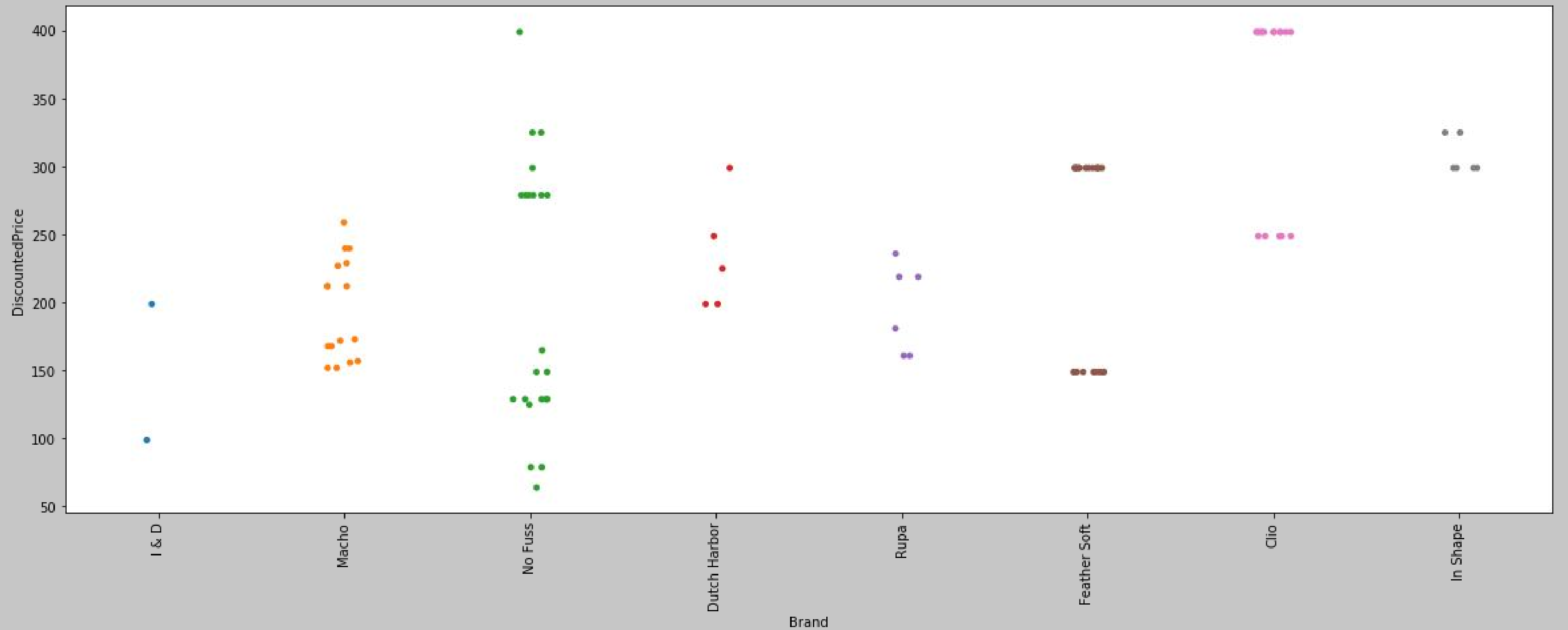


Feather soft and the No Fuss products are the highest products present in Dmart

I&D are the least products present in Dmart

Q21.

Clothing and Accessories Subcategory Discounted Price

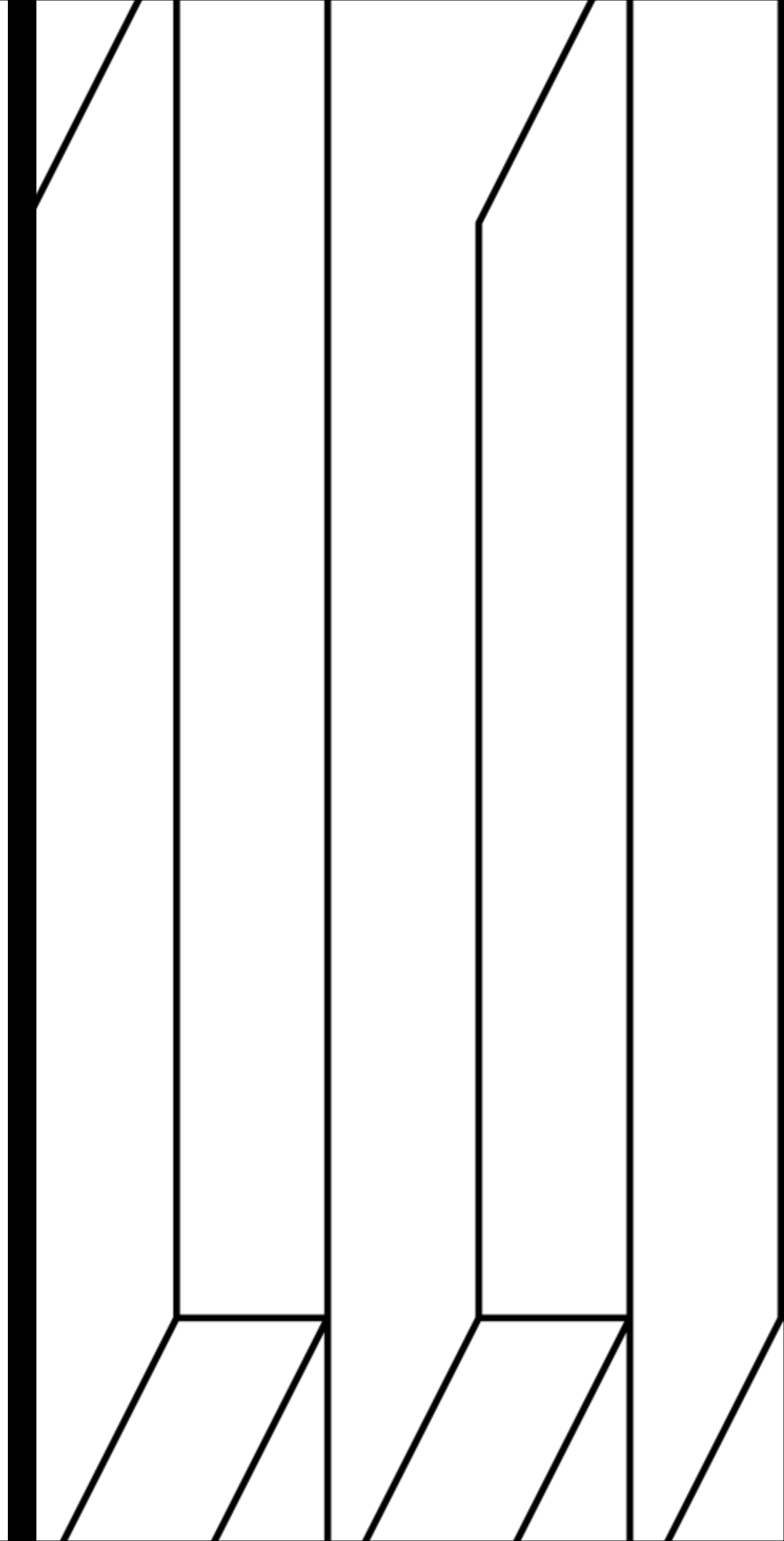


No Fuss and Clio are the two products which have the highest discounted price

Conclusion

Add more text

- Out of all Category Dairy and Beverages contributes overall 6.20% profit
- Between Dairy and Beverages more of the profit comes from Beverages Section
- In Beverages Section the best selling brand is Nescafe with the spread of item discount price range of 10 to 1299
- In Dairy Section the best selling brand is Amul with the spread of item discount price range of 13 to 780
- Further analysis can be done on this dataset using the different methods and considering different Category



THANK
YOU

