**PROJECT REPORT**

**ON**

**BIGG BOSS DATASET**



**By**

**Group G**

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 Submitted in partial fulfillment of the course

**OMIS 645 - 1 Applied Business Analytics SAS**

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**INTRODUCTION**

Bigg Boss is an Indian reality television show where contestants live together in a specially constructed house which is isolated from the outside world. The contestants can be from various profession fields such as Acting, Businessman, Lawyer, Media, Politics, Social activist, sports person and Common people. The contestants were also called as “Housemates” and they were voted out weekly once until one remains in the house and wins the cash prize. During their stay in the house, housemates were monitored by live television cameras and as well as personal audio microphones.

This program relies on techniques such as evictions, weekly tasks and competitions set by Bigg Boss and the “Confession room” where housemates convey their private thoughts to the camera and reveal their nominees for eviction. At regular intervals, the housemates privately nominate a few of their fellow housemates whom they wish to be evicted from the house. The housemates with the most nominations are then announced, and viewers are given the opportunity to vote (via text message or online through social media) for the nominee they wish to be evicted or to be saved from eviction. The last person remaining is declared the winner and awarded the cash prize.

The contestants are required to indulge in housework and are assigned tasks by the producers of the show (who communicate with the housemates via the omnipresent authority figure known to them only as "Bigg Boss"). The tasks are designed to test the teamwork abilities and community spirit of the housemates. The housemates' "luxury budget" (weekly allowance to buy luxury food items other than the supplied essentials) depends on the outcome of assigned tasks.

**DATASET**

Here is the Data dictionary for Bigg Boss (India) dataset​

* Language - Language in which the show is designed for and telecasted                                                      ​

         (Hindi, Kannada, Malayalam, Marathi, Tamil and Telugu) ​

* Season Number - Season number. ​
* Name - Name of participant. ​
* Industry – Professional field of house mate. ​
* Gender - Gender of the Bigg Boss contestant, such as Male, Female, Transgender​
* Number of days existed – Specifies the total number of days existed in house. ​
* Season Length - Number of days of season.
* Number of weeks – Specifies the number of days they stayed in house.​
* % Stayed – Specifies the Percentage of season length they stayed.​
* Number of Housemates - Total number of house mates, in entire season, including wildcard entries. ​
* Host Name - Name of the host (who hosted most of the weekend episodes).​
* Eviction Nominations Faced - Number of Nominations Faced by the Bigg Boss house mate to be Evicted​
* Average TRP - Average TV TRP of the season.​
* Number of re-entries - Number of re-entries into the house.​
* Number of times elected as Captain - Number of times elected as Captain.​
* Winner - Winner or not (1 - winner, 0 – otherwise).​

**INFERENCES**

1. **Does Number of Eviction Nominations affect Winning the title?**

Winning title is indicated a value of “1” and not winning is indicated as “0”. As the dependent variable is Binary categorical variable, we perform Binary Logistic Regression in SAS.

**Hypothesis**:

|  |
| --- |
| H0: No. of Eviction Nominations is not one of the factor for Winning**​**  H1: No. of Eviction Nominations is one of the factor for Winning**​** |

**Analysis Report:**

From fig 1. We can interpret that 4.8%-13.78% variables can be explained by Independent variables. The P-value is less than alpha which means model is significant and we reject the Null Hypothesis and conclude that No. of Eviction Nominations affect the chance of Winning title. Now to know if the Eviction Nominations have a positive or negative effect on winning we consider Estimate value of Number\_of\_Evictions from Fig1. And got a value of 0.3398 which means it has a positive effect on the winning title. From Fig 1 we got a “c” value of 0.786 which means 78.6% model predicted to be accurate.

1. **Do the days stayed(%) vary by Gender?**

We need to know if all the Gender stayed equivalent amount of time in the house. As the Gender has 3 categories (Male, Female & Transgender), we have performed ANOVA to check the variance in SAS.

**Hypothesis:**

|  |
| --- |
| H0: Days Stayed(%) does not vary by Gender**​**  H1: Days Stayed(%)  varies by Gender**​** |

**Analysis Report:**

From Fig 2. We can interpret that we got a P-value of less than alpha which means we reject the Null hypothesis and conclude that % of days stayed in house varies by Gender. Among the Male and Female, overall the Females stayed longer in the house.

1. **Is there any correlation between Season length and Number of Housemates?**

For a given Language and Season, on what criteria Number of Housemates are fixated. To know this, we run correlation analysis in SAS.

**Hypothesis:**

|  |
| --- |
| *H*0: ρ = 0         *H*1: ρ ≠ 0**​** |

**Analysis Report:**

From Fig 3. We can interpret that a correlation value of 0.54231 and a p-value of less than alpha which means we reject null hypothesis and conclude that there is a correlation between Season length and Number of housemates.

1. **Are Gender and Profession of the contestants independent or not?**

We want to know that the contestants taken in each season of Bigg boss have any relation between the gender and profession.

By performing Chi Square Test of Independence, it is determined that there is association in between Gender and Profession of contestants.

**Hypothesis:**

|  |
| --- |
| *H*0:  There is no association between Gender and Profession**​**  *H*1:  There is association between Gender and Profession**​** |

**Analysis Report:**

From the figure 4.1 the p value is less than **α** we can say that the model is significant

From the figure 4.2 we can see the division of people from different industries and can say that Bigg boss is taking contestants from a many industry.

1. **What are the factors that effect to stay longer?**

We wanted to know what are the factors that effecting for a person to stay longer in house

**Hypothesis:**

|  |
| --- |
| H0: % stayed is independent of No. of times as captain, No. of eviction nominations, No. of Housemates  H1: % stayed is dependent of No. of times as captain, No. of eviction nominations, No. of Housemates |

**Analysis Report:**

From the figure 5.1 the p value is less than **α** we can say that the model is significant

We have used Multiple Linear Regression to find the evidence of dependency on No. of times as Captain, No. of Eviction Nominations, No. of Housemates for Percent Stayed, where the Model is proved to be significant.

And the model is explaining with variance of 65%.

1. **What are the factors prominent to be a captain?**

We wanted to know what are the factors that help a person to be a captain.

**Hypothesis:**

**Analysis report:**

We have used Multiple Linear Regression to find the evidence of dependency on

% of Stay, No. of Eviction Nominations, No. of Housemates for No. of times as Captain, where the Model is proved to be significant.

From the figure 6 we can say that the model is significant, and the model is explaining with variance 30%.

**Appendix:**

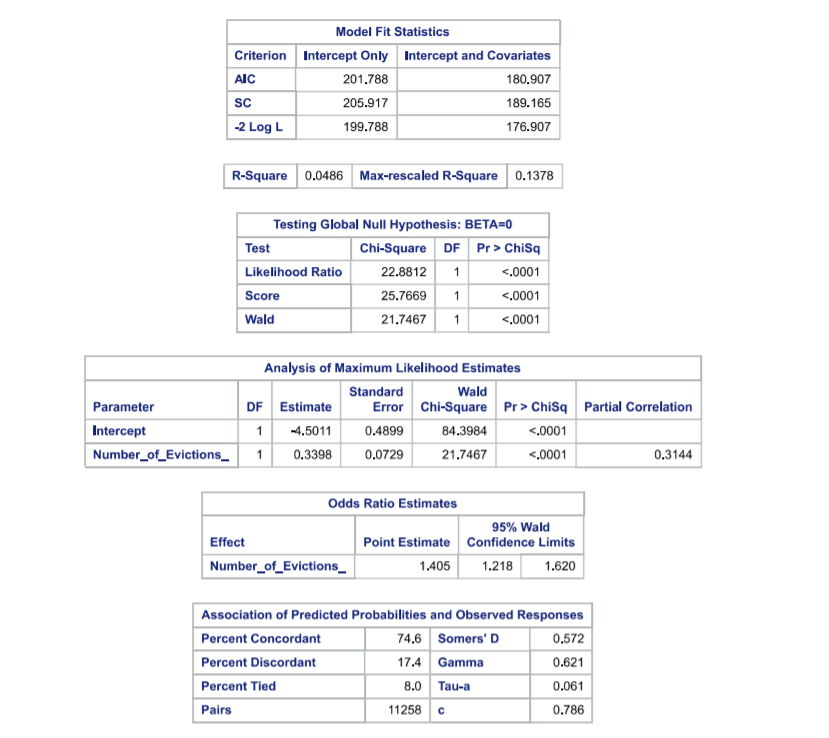


Figure 1.

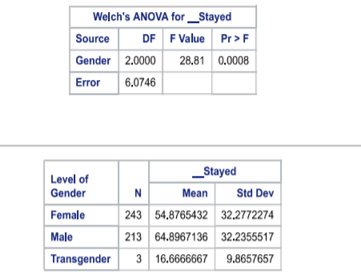
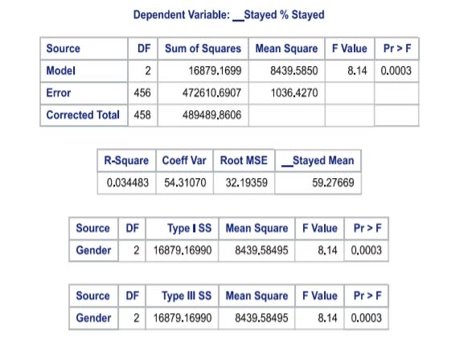


Figure 2.

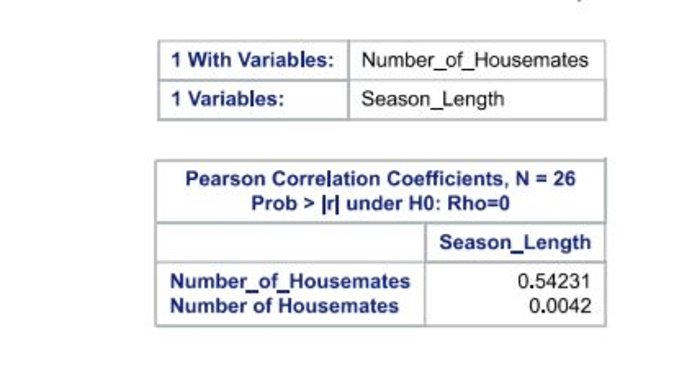


Figure 3.

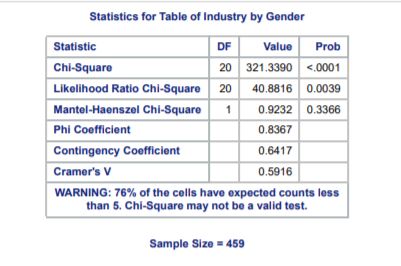


Figure 4.1

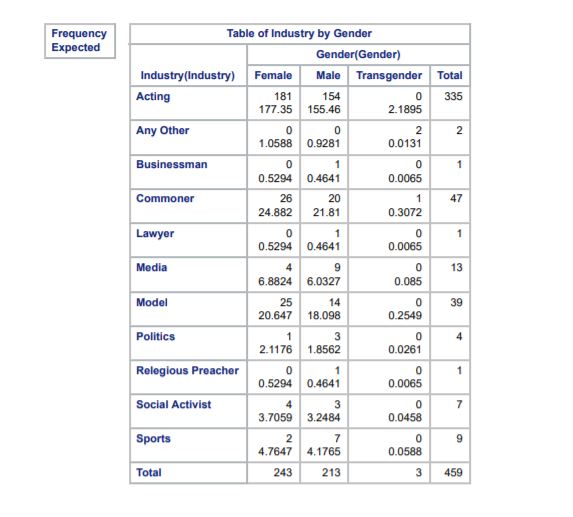


Figure 4.2

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG5pa2l0aGEgcGVkZGFkYQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMzMAAJKSAAIAAAADMzMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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DfJ/xpksWoywvGXgw6lT8p7/jV+igChFFqMUKIHgwoA+6f8afjUf79v/3yf8auUUAU8aj/AH7f/vk/40Y1H+/b/wDfJ/xq5RQBTxqP9+3/AO+T/jRjUf79v/3yf8auUUAZ1zb6hc27wtJAocYJCmkFtqwGPt0P/fmtKigDN+z6t/z/AEP/AH5o+z6t/wA/0P8A35rSooAzfs+rf8/0P/fmj7Pq3/P9D/35rSooAzfs+rf8/wBD/wB+aPs+rf8AP9D/AN+a0qKAM37Pq3/P9D/35p9rZ3aX32i7uUl/d7AFTb3zV+igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

Figure 5.1