

# SumItUp User Manual

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## Introduction

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The SumItUp program is a simple arithmetic game where you need to enter the correct sum of two operands. The maximum value allowed for the operands is determined by a command line argument. The program displays Rabbit images based on the maximum value, with each operand having a random number of Rabbit images.

## System Requirements

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To run the SumItUP program, ensure that you have the following:

- Java Development Kit (JDK) installed
- Command line interface or terminal
- Image files: `plus.png` and `rabbit.jpg`

## Installation

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Follow the steps below to install and run the SumItUP program:

1. Download the SumItUP source code and image files.
2. Compile the Java source code using the following command:

```
javac *.java
```


3. Run the program using the following command:

```
java SumItUp [max]
```

Replace

```
[max]
```

you must input a number between 10 and 25,otherwise it will be a exception



```
C:\Windows\System32\cmd.exe
Microsoft Windows [版本 10.0.19045.2965]
(c) Microsoft Corporation。保留所有权利。

C:\Users\21971\Desktop\210985436\ExtraCredit\src>javac *.java
C:\Users\21971\Desktop\210985436\ExtraCredit\src>java SumItUp 25
C:\Users\21971\Desktop\210985436\ExtraCredit\src>java SumItUp
The array is out of bounds because no command line argument is given.
C:\Users\21971\Desktop\210985436\ExtraCredit\src>java SumItUp 50
The input must be between 1 and 25 (inclusive). You gave a number outside the valid range!
```

## Gameplay Instructions

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1. Launch the SumItUp program from the command line with the desired maximum operand value.
2. The program window will open, displaying a message to enter two operands and the result.

3. Select the left operand from the dropdown menu labeled "Operand 1".
4. Select the right operand from the dropdown menu labeled "Operand 2".
5. Select the sum result from the dropdown menu labeled "Result".
6. Click the "Check!" button to submit your answer.
7. If your answer is correct, the program will display a message stating "Correct! Have another go?" and generate new random operands.
8. If your answer is incorrect, the program will display a message stating "Wrong! Try again!".
9. Repeat steps 3-8 to continue playing the game.

## Notes

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- The maximum operand value must be between 10 and 25 (inclusive).
- Each operand can have a different number of Rabbit images, ranging from 1 to the maximum operand value.
- Rabbit images are displayed in rows, with a maximum of 5 images per row.
- The program uses the `p1us.png` image for displaying the "+" symbol and the `rabbit.jpg` image for the Rabbit images.
- To exit the program, close the program window or terminate the command line interface.

## Troubleshooting

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If you encounter any issues while running the SumItUP program, try the following troubleshooting steps:

- Ensure that you have provided a valid maximum operand value within the specified range.
- Verify that the image files ( `p1us.png` and `rabbit.jpg` ) are present in the correct location.
- Make sure you have correctly compiled and executed the program according to the provided instructions.
- If the issue persists, check for any error messages or exceptions displayed in the command line interface.

## Conclusion

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Congratulations! You have successfully installed and learned how to play the SumItUP game. Enjoy testing your arithmetic skills and have fun with the Rabbit images!