Title: Marquee Display Animation

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Introduction

What is a Marquee Display?

• A scrolling text display, commonly used in advertising and notifications.

Purpose of the program

• To create a simple console application that animates text with use-controlled direction.

Program overview

- Key features:
- Displays a scrolling message.
- User controls to change the direction of scrolling.
- Ability to quit the program.

Code structure

- Main Components:
- 1. Init()- Displays the opening message.
- 2. getUserInput() Handles keyboard input.
- 3. Animatemarquee()- manages the marquee animation.
- 4. main() Entry point of the program.

The Init () Function

```
void Init() {
  printf("Welcome to the Marquee Display!\n");
  printf("Press 'l' for left, 'r' for right, and 'q' to quit.\n\n");
}
```

Purpose

•To prints a welcome message and instructions for the user.

The getUserInput() Function

```
Char getUserInput() {If (_kbhit()) {Return _getch();}Return 0;
```

Functionality

- -Checks if a key is pressed and captures it.
- -Utilizes conio.h functions for non blocking input.

The animateMarquee() Function.

```
Void animateMarquee(const char * message) {
//Logic for animating the marquee
}
```

Core logic:

- Fills a display buffer with the scrolling message.
- Updates display based on user input for direction.
- Uses an infinite loop to continuously refresh the display.

User Interaction

• Controls:

• "I": Scroll left

• "r": Scroll right

• "q": Quit the application.

Main function

```
• Int main() {
   Const char *message =" welcome to the Marquee Display!";
   Init();
   animateMarquee(message);
   Printf("\nGoodbye!\n");
   Return 0;
}
```

Flow of execution

- Initializes the program and starts the marquee animatiom.
- Cleans up and exits gracefully upon quitting.

Conclusion

Key Takeaways:

- Learned to implement a simple text based animation in C.
- Gained experience with user input handling and loop constructs.
- Encouraged exploration of further enhancements (e.g., different messages, speed adjustments).