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#include <stdio.h>

void main() {
    int buffer[10], bufsize, in, out, produce, consume, choice = 0;
    in = 0;
    out = 0;
    bufsize = 10;

    while (choice != 3) {
        printf("\n1. Produce \t 2. Consume \t 3. Exit");
        printf("\nEnter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                if ((in + 1) % bufsize == out) {
                    printf("\nBuffer is Full");
                } else {
                    printf("\nEnter the value: ");
                    scanf("%d", &produce);
                    buffer[in] = produce;
                    in = (in + 1) % bufsize;
                }
                break;

            case 2:
                if (in == out) {
                    printf("\nBuffer is Empty");
                } else {
                    consume = buffer[out];
                    printf("\nThe consumed value is %d", consume);
                    out = (out + 1) % bufsize;
                }
                break;

            case 3:
                printf("\nExiting...");
                break;

            default:
                printf("\nInvalid choice. Please try again.");
                break;
        }
    }
}

```