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#include <stdio.h>
#include <stdlib.h>
// by Faizullah Faizy
// Define a structure for student information
struct student {
    int number; // Student number
    char name[20]; // Student name
    int age; // Student age
    struct student *next; // Pointer to the next node
} ;
// Create a new node with the given information and return its pointer
struct student *create node(int number, char name[], int age) {
    struct student *new node = (struct student *)malloc(sizeof(struct student)); // Allocate
memory for the new node
    new node->number = number; // Assign the number
    strcpy(new node->name, name); // Copy the name
    new node->age = age; // Assign the age
    new node->next = NULL; // Set the next pointer to NULL
    return new node; // Return the new node pointer
// Insert a new node at the end of the list and return the head pointer
struct student *insert node(struct student *head, int number, char name[], int age) {
    struct student *new node = create node(number, name, age); // Create a new node with the
given information
    if (head == NULL) { // If the list is empty
        head = new node; // Make the new node the head of the list
    else { // If the list is not empty
        struct student *current = head; // Create a pointer to traverse the list
        while (current->next != NULL) { // While the end of the list is not reached
            current = current->next; // Move to the next node
        current->next = new node; // Insert the new node at the end of the list
    return head; // Return the head pointer
}
// Print all the nodes in the list and return the count of nodes
int print list(struct student *head) {
    int count = 0; // Initialize a counter for nodes
    struct student *current = head; // Create a pointer to traverse the list
    while (current != NULL) { // While the end of the list is not reached
        printf("%s %d %d\n", current->name, current->age, current->number);
        count++;
        current = current->next;
    return count;
int main() {
    struct student *head = NULL;
    int number, age;
    char name[20];
    char choice;
    do {
        printf("Enter the student number: ");
        scanf("%d", &number);
        printf("Enter the student name: ");
        scanf("%s", name);
        printf("Enter the student age: ");
        scanf("%d", &age);
        head = insert node(head, number, name, age);
        printf("Do you want to enter another student? (y/n): "); // Ask the user
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scanf(" %c", &choice);
} while (choice == 'y' || choice == 'Y'); // Repeat until the user enters n or N
int count = print_list(head); // Print
printf("The number of students is %d\n", count);
return 0;
}
```