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#include <stdio.h>

// Structure to represent a process
struct Process {
    int id;        // Process ID
    int priority;   // Priority
    int executionTime; // Execution time
};

// Function to select the process with the highest priority
int selectProcess(struct Process processes[], int n) {
    int highestPriority = processes[0].priority;
    int highestPriorityIndex = 0;

    // Find the process with the highest priority
    for (int i = 1; i < n; i++) {
        if (processes[i].priority > highestPriority) {
            highestPriority = processes[i].priority;
            highestPriorityIndex = i;
        }
    }

    return highestPriorityIndex;
}

int main() {
    int n; // Number of processes
    printf("Enter the number of processes: ");
    scanf("%d", &n);

    struct Process processes[n]; // Array to store processes

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// Input the process details
for (int i = 0; i < n; i++) {
    printf("Enter the priority for process %d: ", i + 1);
    scanf("%d", &processes[i].priority);
    printf("Enter the execution time for process %d: ", i + 1);
    scanf("%d", &processes[i].executionTime);
    processes[i].id = i + 1;
}

// Select the process with the highest priority
int selectedProcessIndex = selectProcess(processes, n);
struct Process selectedProcess = processes[selectedProcessIndex];

// Output the selected process
printf("Selected process: P%d\n", selectedProcess.id);
printf("Priority: %d\n", selectedProcess.priority);
printf("Execution time: %d\n", selectedProcess.executionTime);

return 0;
}

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C:\Users\kondur\OneDrive\ID x + v
Enter the number of processes: 2
Enter the priority for process 1: 3
Enter the execution time for process 1: 4
Enter the priority for process 2: 5
Enter the execution time for process 2: 2
Selected process: P2
Priority: 5
Execution time: 2

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Process exited after 5.583 seconds with return value 0
Press any key to continue . . . |
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