main.c

Share Run

Output

```
}

int main() {
    calc_need();
    int p,req[R];
    printf("Enter process number (0 to 4): ");
    scanf("%d",&p);
    printf("Enter resource request (e.g., 0 1 0): ");
    for(int i=0;i<R;i++) scanf("%d",&req[i]);

    // Check request <= need and request <= avail
    for(int i=0;i<R;i++){
        if(req[i]>need[p][i]) { printf("Error: exceeds need\n"); return 0; }
        if(req[i]>avail[i]) { printf("Resources not available\n"); return 0; }
    }
    // Try allocation
    for(int i=0;i<R;i++){
        avail[i]-=req[i]; alloc[p][i]+=req[i]; need[p][i]-=req[i];
    }
    if(is_safe()) printf("Request granted. System is in safe state.\n");
    else { printf("Request denied. System is not in safe state.\n"); }
    return 0;
}

```

```
Enter process number (0 to 4):
```