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#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int isHistoryCmd(char *line)
{
    if (line[0] != '!') return 0;

    int n = strlen(line);

    for (int i = 1; i<n; i++) {
        if (!(line[i] >= '0' && line[i] <= '9')) return 0;
    }

    return 1;
}

int main()
{
    char history[100][100];

    int historyFlag = 0;

    int hn;

    char line[100];

    while(1) {
        printf("SSAFY > ");

        if (historyFlag == 0) {
            scanf("%s", line);
        }

        historyFlag = 0;

        //add history

        strcpy(history[hn++], line);
    }
}

```

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    if (!strcmp(line, "date")) system("date");

    else if (!strcmp(line, "uptime")) system("uptime");

    else if (!strcmp(line, "ls")) system("ls -al");

    else if (!strcmp(line, "log")) system("dmesg");

    else if (!strcmp(line, "exit")) break;

    else if (!strcmp(line, "hclear")) hn = 0;

    else if (!strcmp(line, "history")) {

        for (int i = 0; i < hn; i++) {

            printf("%d %s\n", i + 1, history[i]);

        }

    }

    else if (isHistoryCmd(line) == 1) {

        int num = atoi(&line[1]);

        strcpy(line, history[num - 1]);

        historyFlag = 1;

    }

    else {

        printf("ERROR\n");

    }

}

return 0;

}

```