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```
#include <stdio.h>
int main()
{
    int i, N, S, A, X;
    for (int i = 0, i <= X, i++)
    {
        if (X < A)
        {
            printf("the student is considered absent");
        }

        else
        {
            printf("the student is present");
        }

        if (all N student are processed or the number of absent student research S)
        {
            printf("simulation stop");
        }

        else
        {
            printf("continue the simulation");
        }

        if (S>= A)
        {
            printf("session valid");
        }

        else
        {
            printf("session cancelled");
        }
    }

    return 0;
}
```