

Copy number :

19

تعليمات إلزامية : كتابة البرنامج كاملاً داخل main | يمنع استعمال حلقة واحدة فقط | يمنع استعمال المصفوفات، الدوال، break / continue

Input reading: 3pts | Initialization: 3 pts | Loop condition: 4 pts | Counters logic: 4 pts | Stop conditions: 3 | Final output: 3

```
#include <stdio.h>
int main () {
    int N, A, S;
    printf ("N = ");
    scanf ("%d", &N);
    printf ("A = ");
    scanf ("%d", &A);
    printf ("S = ");
    scanf ("%d", &S);

    int i, X[10], p = 0, a = 0; // p: present students, a = absent students
    for (i = 1; i <= N || a > S; i++) {
        printf ("%d = ", i);
        scanf ("%d", &X[i]);
        if (X[i] < A) {
            printf ("%d absent", i);
            a++;
        } else {
            printf ("%d present", i);
            p++;
        }
        printf ("a = %d", a);
        printf ("p = %d, p", p);
    }
    if (a < S) {
        printf ("Session Invalid");
    } else {
        printf ("Session Cancelled");
    }
    return 0;
}
```

Copy 19

```
#include <stdio.h>
int main()
{
    int N, A, S;
    printf("N = ");
    scanf("%d", &N);
    printf("A = ");
    scanf("%d", &A);
    printf("S = ");
    scanf("%d", &S);
    int i, X, P = 0, a = 0;
    // p: present students, a: absent for (i = 1; i <= N || a > S; i++)
    {
        printf("%d", i);
        scanf("%d", &X);
        if (X < A)
        {
            printf("%d absent", i);
            a++;
        }
        else
        {
            printf("%d present", i);
            P++;
        }
    }

    printf("a = %d", a);
    printf("p = %d", P);
}

if (a < S)
{
    printf("Session Valid");
}

else
{
    printf("session cancelled");
}

return 0;
}
```

COPY NUMBER: 19

Analyse :

Algorithmique :

- Initialisation $P=0$, $a=0$.
- Boucle `for (i = 1; i <= N || a > S; i++)` : Condition `||` (OU) signifie que la boucle continue SI on dépasse le seuil !! C'est l'inverse (`&&` $a < S$).
- Lectures et tests corrects.
- Incrémantation correcte.
- Affichage final correct.

Notation :

| Critère | Points | Commentaire |
|--------------------|--------|--------------------------------------------------------------------------------------|
| Lecture N, A, S | 3 / 3 | Correct. |
| Initialisation | 3 / 3 | Correct. |
| Condition boucle | 2 / 4 | Erreur de logique booléenne (<code> </code> prolonge la boucle au lieu d'arrêter). |
| Logique prés./abs. | 4 / 4 | Correct. |
| Compteurs | 3 / 3 | Correct. |
| Affichages inter. | 2 / 2 | Correct. |
| Affichage final | 1 / 1 | Correct. |

NOTE FINALE : 18 / 20

Feedback :

- Points forts** : Très bon code.
- Points faibles** : Petite erreur de logique sur la condition d'arrêt (`||` vs `&&`).
- Appréciation globale** : Très Bon.