



```
1  /*****
2  /*  Name: Examen Janvier 2005
3  /*  Auteur: PAGART IGOR
4  /*  Date: 10/02/2005
5  /*  Description: Code C correspondant a l'algo Q3
6  /*
7  /*****
8
9
10 #include <stdio.h>
11 #include <stdlib.h>
12 #include <time.h>
13
14 int main()
15 {
16     int menu;
17     char buffer[10];
18     int V[100],n,nmax,i,cptr,cptrmax;
19     srand(time(0));
20     do{
21         printf("Menu (1-4):");
22         fgets(buffer, sizeof buffer, stdin);
23         sscanf(buffer, "%d",&menu);
24         switch(menu)
25         {
26             case 1:
27                 for(i=0;i<100;i++)
28                 {
29                     V[i] = rand()%100;
30                 }
31                 break;
32
33             case 2:
34                 cptrmax = nmax = 0;
35                 for(n=1;n<=100;n++)
36                 {
37                     cptr = 0;
38                     for(i=0;i<100;i++)
39                     {
40                         if(n == V[i])
41                         {
42                             cptr++;
43                         }
44                     }
45                     if(cptr > cptrmax)
46                     {
47                         cptrmax = cptr;
48                         nmax = n;
49                     }
50                 }
51                 printf("Valeur la plus presente: %d\n",nmax);
52                 break;
53
54             case 3:
55                 for(i=0;i<100;i++)
56                 {
57                     printf("V[%d] = %d\n",i,V[i]);
58                 }
59                 break;
60         }
61     }while(menu != 4);
62
63     system("PAUSE");
64     return 0;
65 }
66
```