

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define DIM 100
4
5 int main(void){
6     int vector[DIM],
7         dim,
8         diff,
9         diffmax;
10
11     do{
12         printf("Introduce maximo de numeros a introducir: ");
13         scanf("%d", &dim);
14     }while(dim < 2 || dim > DIM);
15
16     printf("\nIntroduce numero v[%d]: ", 1);
17     scanf("%d", &vector[0]);
18     for(int i = 1; i < dim; i++){
19         do{
20             printf("Introduce numero v[%d]: ", i+1);
21             scanf("%d", &vector[i]);
22             }while(vector[i] ≤ vector[i-1]);
23     }
24
25     diffmax = vector[1] - vector[0];
26     for(int i = 2; i < dim; i++){
27         diff = vector[i] - vector[i-1];
28         if(diff > diffmax) diffmax = diff;
29     }
30
31     printf("\n");
32
33     for(int i = 0; i < dim; i++) printf("%6d", vector[i]);
34     printf("\nDiferencia maxima: %d", diffmax);
35
36     printf("\n\n");
37     system("pause");
38     return 0;
39 }
40
```