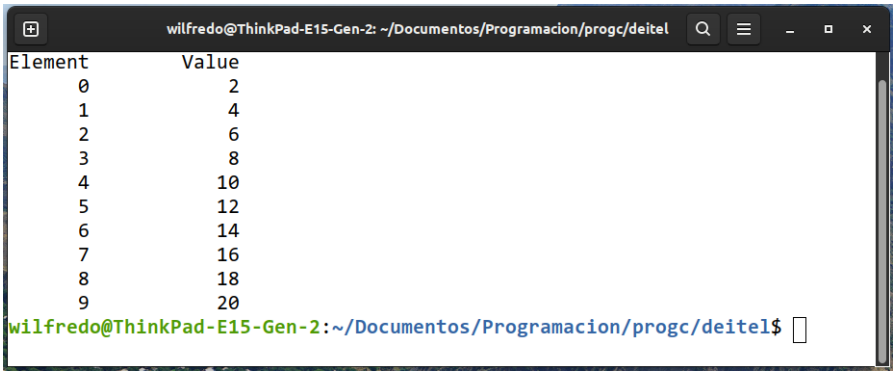
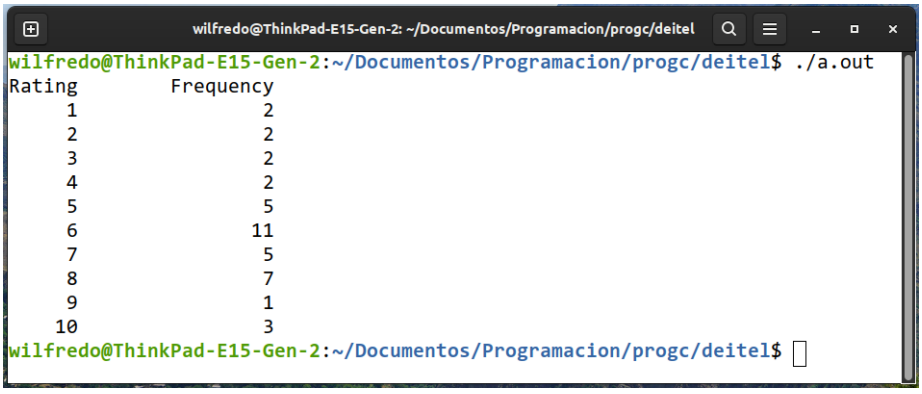
```c
/*
    Initialize the elements of array s to the even integers from 2 to 20
*/

#include <stdio.h>
#define SIZE 10

void main()
{
    int s[SIZE], j;

    for (j=0; j<=SIZE-1; j++)    /* set te values */
        s[j]=2+2*j;

    printf("%s%13s\n", "Element","Value");

    for (j=0; j<=SIZE-1; j++)     /* print the values */
        printf("%7d%13d\n", j, s[j]);
}
```

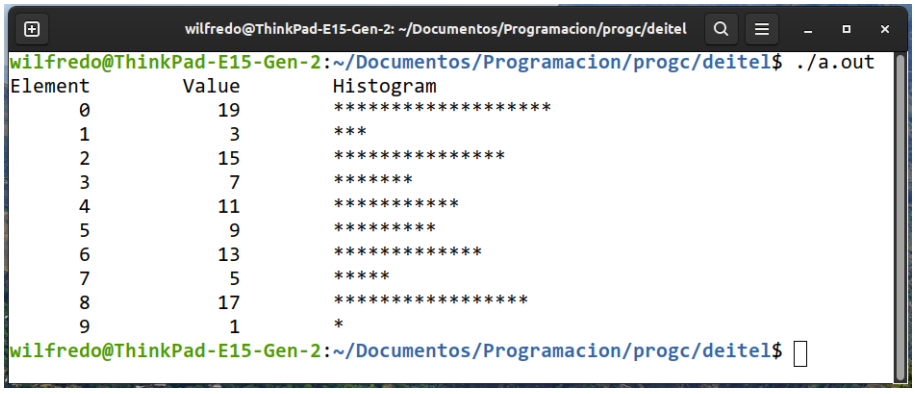




```c
/*
    Student poll program
*/

#include <stdio.h>
#define RESPONSE_SIZE 40
#define FREQUENCY_SIZE 11

void main()
{
    int answer, rating;
    int responses[RESPONSE_SIZE]={1, 2, 6, 4, 8, 5, 9, 7, 8,
        10, 1, 6, 3, 8, 6, 10, 3, 8, 2, 7, 6, 5, 7, 6, 8, 6, 7,
        5, 6, 6, 5, 6, 7, 5, 6, 4, 8, 6, 8, 10};
    int frequency[FREQUENCY_SIZE]={0};

    for (answer=0; answer<=RESPONSE_SIZE-1; answer++)
        ++frequency[responses[answer]];;

    printf("%s%17s\n", "Rating","Frequency");

    for (rating=1; rating<=FREQUENCY_SIZE-1; rating++)
        printf("%6d%17d\n", rating, frequency[rating]);
}
```



```c
/*
    Histogram printing program
*/

#include <stdio.h>
#define SIZE 10

void main()
{
    int n[SIZE]={19, 3, 15, 7, 11, 9, 13, 5, 17, 1};
    int i, j;

    printf("%s%13s%17s\n", "Element", "Value", "Histogram");

    for (i=0; i<=SIZE-1; i++)
    {
        printf("%7d%13d        ", i, n[i]);

        for (j=1; j<=n[i]; j++)    /* print one bar */
            printf("%c", '*');

        printf("\n");
    }
}
```



```c
/*
    Roll a six-sided die 6000 times
*/

#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#define SIZE 7

void main()
{
    int face, roll, frequency[SIZE]={0};

    srand(time(NULL));

    for (roll=1; roll<=6000; roll++)
    {
        face=rand() % 6 + 1;
        ++frequency[face];
    }

    printf("%s%17s\n", "Face", "Frequency");

    for (face=1; face<=SIZE-1; face++)
        printf("%4d%17d\n", face, frequency[face]);
}
```