

```

/*
 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]);
}

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 *****/

```

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wilfredo@ThinkPad-E15-Gen-2: ~/Documentos/Programacion/progc/deitel
Element      Value
   0           2
   1           4
   2           6
   3           8
   4          10
   5          12
   6          14
   7          16
   8          18
   9          20
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$

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```

/*
  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]);
}

```

```

wilfredo@ThinkPad-E15-Gen-2: ~/Documentos/Programacion/progc/deitel$ ./a.out
Rating      Frequency
  1           2
  2           2
  3           2
  4           2
  5           5
  6          11
  7           5
  8           7
  9           1
 10           3
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$

```

```

/*
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");
    }
}

```

```

wilfredo@ThinkPad-E15-Gen-2: ~/Documentos/Programacion/progc/deitel
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$ ./a.out
Element      Value      Histogram
  0             19      *****
  1              3          ***
  2             15      *****
  3              7          *****
  4             11      *****
  5              9          *****
  6             13      *****
  7              5          *****
  8             17      *****
  9              1           *
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$

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```

/*
   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]);
}

```

```

wilfredo@ThinkPad-E15-Gen-2: ~/Documentos/Programacion/progc/deitel
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$ ./a.out
Face      Frequency
 1         1026
 2          968
 3          993
 4         1000
 5         1017
 6          996
wilfredo@ThinkPad-E15-Gen-2:~/Documentos/Programacion/progc/deitel$

```