```c
/*
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 * Classnote:    Sample #4 for 2301171 tutorial (Distant Learning Program)
 * Description: This program illustrates the use of array variables in C.
 */

#include        <stdio.h>
#define         Max             10
#define         Line            8

int
main(void)
{
        int     num[Max];
        int     index, min, max;

        /*
         * read loop to fill out the array 'num'.
         */
        printf("\nEnter %d integers separted by blanks\n->", Max);
        for (index=0; index < Max; index++)
        {
                scanf("%d", &num[index]);
        }
        printf("\n");
        /*
         * determine max and min values by arbitarily setting
         * the first value to be min/max.  Note that the index
         * starts at 1.
         */
        min = num[0];
        max = num[0];
        for (index=1; index < Max; index++)
        {
                if (min > num[index])
                        min = num[index];
                if (max < num[index])
                        max = num[index];
        }
        /*
         * print loop to fill out the array 'num'.
         */
        for (index=0; index < Max; index++)
        {
                printf("%d\t", num[index]);
                if ((index+1) % Line == 0)
                        printf("\n");
        }
        printf("\n");
        printf("The minimum value is: %d\n", min);
        printf("The maximum value is: %d\n", max);
        return 0;
}
```