

```

//Example 23
#include <stdio.h>
#include <stdlib.h>
#define N 10

int main ()
{
    int i, n, d, a[N];
    FILE *infile, *outfile;
    infile=fopen("input.txt", "r");
    if(infile != NULL)
    {
        outfile = fopen("output.txt", "w");
        if(outfile != NULL)
        {
            i = 0;
            while(fscanf(infile, "%d" , &d) == 1 && i < N)
            {
                printf("Value %d is %d\n", i, d);
                fprintf(outfile, "Value %d is %d\n", i, d);
                a[i++] = d;
            }
            n = i;
            fprintf(outfile, "\nData from the array\n");
            for(i = 0; i < n; i++)
            {
                fprintf(outfile, "Value %d is %d\n", i, a[i]);
            }
            fclose(infile);
            fclose(outfile);
        }
        else
        {
            printf("output.txt failed to open\n");
            fclose(infile);
        }
    }
    else
    {
        printf("input.txt failed to open\n");
    }
    system("pause");
    return 0;
}

```