1. Use a loop with indirect addressing to reverse the elements of an integer array in place.
2. Write a program that uses a loop with indirect addressing to calculate the first ten numbers of Fibonacci sequence.
3. Write a program to sort (in ascending) two word arrays a1 and a2 in a way that after sorting, both the arrays are sorted when taken together.

**Sample Output:**

*Before sorting:*

*Contents of a1: 31 45 61 19 84*

*Contents of a2: 67 60 10 54 28*

*After sorting:*

*Contents of a1: 10 19 28 31 45*

*Contents of a2: 54 60 61 67 84*

1. Use cmp and jumps to separate the all non-zero and zero values in the given array and saved them in their respected array:

**intArr SWORD 0, 0, 0, 0, 1, 20, 35, -12, 66, 4, 0**

**Zero word 10 dup (?)**

**Non\_Zero word 10 dup (?)**

1. Write a program to take an input number from the user in the range 1-6 and display its factorial.
2. You are tasked with finding DORY. Make a program that keeps reading character from the user and stops when the last four input characters read make up the string DORY. Display “DORY FOUND” to the console window.

Read 20 characters at max and if the combination D O R Y never appears in user input then display the result “DORY NOT FOUND” to the console window and exit.

1. Write a program to display a diamond pattern made of decimal numbers (starting with 1):

Sample Output:

