1. Implement Template based Stack using a static array. Make the array size 10.
2. Implement Template based Stack using a singly linked-list.
3. Implement Template based Stack using a dynamic array.
4. Implement a function "**decrease_size()**" in problem 3 which shrinks the size of the array when **stack_size** < **array_cap/2**. That is when **stack_size** < **array_cap/2,** you need to decrease the **array_cap** by half.
5. Sort a stack using another temporary stack.
6. Reverse a stack using another temporary stack.