Design of assignment 10

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| Class polish |
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| Public:  calculation(int a[],string b[],int size\_of\_a, int size\_of\_b): void |

Design:

1. Set a class Polish and a public function calculation ().
2. calculation(int a[],string b[],int size\_of\_a, int size\_of\_b) in this function, I set a int array a[], and a string array b[],a[] includes all numbers and b[] includes all symbols, and another int variable size\_of\_a which is the size of a, and size\_of\_b. then I put all a[] into an int stack. Push all b[] into a string stack. Then use a while loop to get the top numbers of the 2 stack and pop them. Then use if to calculate them. Then get the number push into int stack. Until the symbol stack is empty. Then print the top number of the number stack.
3. Main() set the input string and space, so we can get the length of the string, use istringstream wo set each element into another array. Then I divide the array into 2 parts the number part and the symbol part. And use atoi to change the string into int. in the end , set an object and use calculation get the result.

Test:

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| input | expect |
| / \* - + 8 5 2 3 6 | 5 |
| * 7 | Error |
| / 7 4 | 1 |
| \* / - 9 6 3 | Error |