min stack

```
class MinStack {
public:
    vector<int> stack;
    vector<int> minS;
    int min;
    MinStack() {
      min = 0;
      printf("stack init\n");
    }
    void push(int val) {
      stack.push_back(val);
      printf("push back %d %d\n",val,stack.size());
      if (val <= min || stack.size() == 1){</pre>
        min = val;
        minS.push_back(val);
        printf("min : %d\n",min);
      }
    }
    void pop() {
      if (!stack.empty()){
        if (stack[stack.size()-1] == min){
          printf("NEw min: %d\n", minS[minS.size()-1]);
          if (minS.size()> 1){
            min = minS[minS.size()-2];
            minS.pop_back();
            printf("min popped\n");
          }else{
            minS.pop_back();
            min = 0;
          }
        }
        stack.pop_back();
```

```
printf("val popped");
}

int top() {
  return stack[stack.size()-1];
}

int getMin() {
  printf("%d\n",min);
  return min;
}
};
```