**Workshop 2: Weather Service  
by: Luca Novello (gnovello)**

There are three (3) types of resources that can potentially be dispatched: snowplow, sand truck, and a salt truck. If a snowplow truck is required, the number of trucks should be specified. When sand or salt trucks are needed, the number of trucks required should be specified as well as the rate of application (light, normal, heavy). The a solution should output concise meaningful message that describes to the clerk (user) the necessary action(s) to take.

[Logic 3] This will do the logic for selecting the salters, sanders, and plows for ICE only. It will cover all the amounts of ice and all the temperature ranges.

1. Is precipitation accumulation <= 3.0mm?
   1. Yes: Continue (step 8)
   2. No: Continue (step 2)
2. Is precipitation accumulation >3.0 - 5.5 mm?
   1. Yes: Continue (step 3)
   2. No: Continue (step 5)
3. Is the temperature < -15.0?
   1. Yes: Continue (step 9)
   2. No: Continue (step 4)
4. Is the temperature 15.0 to -7.0?
   1. Yes: Continue (step 10)
   2. No: Continue (step 8)
5. Is precipitation accumulation >5.5 - 17.0 mm?
   1. Yes: Continue (step 6)
   2. No: Continue (step 14)
6. Is the temperature < -15.0?
   1. Yes: Continue (step 11)
   2. No: Continue (step 7)
7. Is the temperature 15.0 to -7.0?
   1. Yes: Continue (step 12)
   2. No: Continue (step 13)
8. Output Message: “No action required.”
9. Output Message: “1 (Normal) sand truck is required.”
10. Output Message: “1 (Normal) salt truck is required.”
11. Output Message: “2 (Heavy) sand truck is required.”
12. Output Message: “2 (Heavy) salt truck is required.”
13. Output Message: “1 (Heavy) salt truck is required.”
14. Output Message: “State of Emergency! Organize army and other jurisdiction support.”
15. End