* Read input
* Choose mode //constructor
* Set current day to 1
* Loop(until all missions are completed)
  + Check events
  + If(CD == ED) //execute events
    - Event->execute()
  + Endif
  + Check checkup rover list
  + If(checkup ended) //check checkup
    - Move rover to available rover list
  + End if
  + Check waiting missions
    - If(CD >= FD)
      * If( available rover) //check waiting
        + Assign rover to mission
        + Move rover to in-mission
        + Calculate WD
        + Move mission to in-execution
      * Endif
    - Endif
    - Check in execution missions
    - If(completed)
      * If(rover need checkup) //check in executions
        + Move rover to checkup list
      * Else
        + Move rover to available rover list
      * Endif
      * Calculate ED
      * Calculate CD
      * Free rover
      * Move mission to completed
    - Endif
    - If(mode == interactive)
      * Wait for user input //print day according to mode
      * Print day
    - Else if( mode == step by step)
      * Sleep(1)
      * Print day
    - Endif
    - Increment current day //increment day
* End loop
* If(silent mode) //print output file
  + Print silent
* Print output file

int main()

{

Mars\_station MS;

While(not\_all\_done())

{

Execute\_events();

check checkup();

check waiting();

check in executions();

print day according to mode();

increment day();

}

Print output file();  
}