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Assignment II

Advance Topics in Software Engineering: Software Development in C

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/*

dt → desired temperature **mt** → measured temperature

Void startheating (int dt, int mt) {

int randomnumber {array [1,2,3]; return number from array};

}

*/

Pre-conditions:

1. Entered temperature should be in between 16^0C to 35^0C.
2. Entered desired temperature **(dt)** should be greater than measured temperature **(mt)**.

Post-condition:

1. Measured temperature should reach desired temperature.

Testing strategy:

1. If desired temperature < measured temperature at the last cycle of execution, then the random function inside heating function will choose another value.

   Example: **dt**=28^0C, **mt**=20^0C. let's say **mt** reaches 26^0C and if random function chooses 3 from the random value so resultant **dt** would be 29^0C. So instead of execution with value 3, random function will choose another value from the array.
2. After successful execution of the function **dt** = **mt**.