```
For every cycle of update:
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```
Damage level of each road is updated as
If (Damage=0)
 Damage=2;
}
Else if (Damage =1)
{
 Damage=0;
}
Else {
 Damage=1;
}
Amount of resources available at places are updated as:
// note: I is postion of the the location in intial
input
// k is total number of locations
If (resources at I th location is > Threshold+k)
{
     New resources at I th location = resources before at I th location -k \% I;
Else If (resources at I th location is < Threshold+k && resources at I th location is >
Threshold)
{
      New resources at I th location = resources before at I th location - I;
}
Else{
    New resources at I th location = Threshold; }
```

```
Amount of resources available at resource centers are updated as:

// here resources indicate before cycle of update;

If (8*threshold > resources & resources > threshold) {

New resources = resources + threshold;

}

Else if ( resources >= 8*threshold) {

New resources = resources - threshold;

}

Else {

New resources = resources + 8*threshold

}
```