

Annotation:

1. Using **Deque** is easy to insert or delete from both end, but hard to compare(have to poll() means remove element from queue); Using **array list** is easy to compare, but cannot insert from head; Therefore, the good choice is **StringBuilder sb.insert(offset, element)** which can insert at any location of String, and compare with **"sb.toString().charAt(i)"**
2. A easy way to transfer 11->A, 12->B ...
char[] rep = new char[] { '0','1','2','3','4','5','6','7','8','9',
 'A','B','C','D','E','F','G','H','I','J'};
11->rep[11]
3. Again, module design->keep main() short.