

Question : Leetcode for add binary

Solution:

```
class Solution {  
    public String addBinary(String a, String b) {  
        StringBuilder sb = new StringBuilder();  
        int carry = 0;  
        int i = a.length() - 1;  
        int j = b.length() - 1;  
  
        while (i >= 0 || j >= 0 || carry == 1) {  
            if (i >= 0)  
                carry += a.charAt(i--) - '0';  
            if (j >= 0)  
                carry += b.charAt(j--) - '0';  
            sb.append(carry % 2);  
            carry /= 2;  
        }  
  
        return sb.reverse().toString();  
    }  
}
```

Question: Leet code for Happy number

Solution:

```
class Solution {  
    public boolean isHappy(int n) {  
        HashSet <Integer> hs = new HashSet<>();  
        int sum = 0;  
        while(sum!= 1 && !hs.contains(sum)){  
            hs.add(sum);  
            sum=0;  
            while(n!=0)  
            {  
                sum += Math.pow(n%10,2);  
                n/=10;  
            }  
            n = sum;  
        }  
        return sum == 1;  
    }  
}
```