Double Hash for number:

```
struct DoubleHash{
    const int p1=53, p2=137; // 31 , 53 , 137 , 1331 , 1333
    const int m1=1e9+9, m2=1e9+7; // 1e9+7 , 1e9+9
    vector<ll> pow1, pow2, h1, h2;
    int end = 0;

    void build(int num) {
        int n = 1;
        end++;

        pow1.resize(n);
        h1.resize(n);
        pow1[0]=1;
        h1[0]=num+1;

        pow2.resize(n);
        h2.resize(n);
        pow2[0]=1;
        h2[0]=num+1;
    }

    void add(int num){
        end++;
        pow1.push_back(pow1.back()*p1%m1);
        h1.push_back((h1.back()*p1 + num+1)%m1);

        pow2.push_back(pow2.back()*p2%m2);
        h2.push_back((h2.back()*p2 + num+1)%m2);
    }

    pair<int, int> getHash(int i, int j){
        ll a = h1[j];
        if(i) a -= h1[i-1] * pow1[j-i+1];
        a = (a%m1 + m1)%m1;

        ll b = h2[j];
        if(i) b -= h2[i-1] * pow2[j-i+1];
        b = (b%m2 + m2)%m2;

        return make_pair(a,b);
    }
};
```