```
struct BSTIterator {
    struct DynArr *stk;
    struct BSTree *tree;
};
void BSTIteratorInit (struct BSTree *tree, struct BSTIterator *itr) {
        itr->stk = dyNew(20); //create dyn array capacity 20
        assert(itr->stk); //make sure it was allocated properly (probably redundant)
        itr->tree = tree;
}
int BSTIteratorHasNext (struct BSTIterator * itr) {
        Node *n;
        if(dyStackIsEmpty(itr->stk)) // if stack is empty perform slideLeft on root
                 slideLeft(itr->tree->root);
        else {
                 n = dyStackTop(itr->stack); //let n be top of stack
                 dyStackPop(itr->stack); //pop topmost element.
                 _slideLeft(n->right); // slideLeft on right child of n
        if(!dyStackIsEmpty(itr->stack)) // return true if stack is not empty
                 return 1;
        else
                 return 0; //iterator does not have next since stack is empty
}
TYPE BSTIteratorNext (struct BSTIterator *itr) {
        return dyStackTop(itr->stack)->value; //return value of top of stack
}
void _slideLeft(struct Node *cur, struct BSTIterator *itr)
        While(cur != null)
                   dynArrayPush(Itr->stk, cur->val);
                   cur = cur->left;
           }
}
```