Dynamic Method Selection

Modify the code below so that the max method of DMSList works properly. Assume all numbers inserted into DMSList are positive, and we only insert using insertFront. You may not change anything in the given code. You may only fill in blanks. You may not need all blanks. (Spring '16, MT1)

```
public class DMSList {
        private IntNode sentinel;
2
        public DMSList() {
            sentinel = new IntNode(-1000, _____);
        public class IntNode {
           public int item;
            public IntNode next;
            public IntNode(int i, IntNode h) {
                item = i;
                next = h;
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           public int max() {
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                return Math.max(item, next.max());
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        }
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        public _____ {
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        /* Returns 0 if list is empty. Otherwise, returns the max element. */
        public int max() {
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            return sentinel.next.max();
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        public void insertFront(int x) { sentinel.next = new IntNode(x, sentinel.next); }
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   }
```