

Worksheet: Futures

Here is a recursive, sequential divide-and-conquer function for finding a maximum value in an array:

```
static int findMax(int[] X, int lo, int hi) {
    if ( lo > hi ) return 0;
    else if ( lo == hi ) return X[lo];
    else {
        int mid = (lo+hi)/2;
        var max1 =
            findMax(X, lo, mid);
        var max2 =
            findMax(X, mid+1, hi);

        return (max1 > max2)? max1 : max2;
    }
} // findMax
```

Indicate in the code the changes you need to make to this function in order to create a parallel, recursive divide-and-conquer function for finding a maximum value in an array.

