```
chan values(int), results[n] (int smallest, int largest);
process P[0] { # coordinator process
    int v; # assume v has been initialized
    int new, smallest = v, largest = v; # initial state
    # gather values and save the smallest and largest
    for [i = 1 to n-1] {
        receive values(new);
        if (new < smallest)
                smallest = new;
            if (new > largest)
                largest = new;
    }
    # send the results to the other processes
    for [i = 1 to n-1]
        send results[i](smallest, largest)
}
process P[i = 1 to n-1] {
    int v; # assume v has been initialized
    int smallest, largest;
    send values(v);
    receive results[i](smallest, largest);
}
```

Figure 7.11 Exchanging values: centralized solution.

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