The following solution has been proposed for solving the mutual exclusion problem (assume that there are only two processes: 0 and 1):

```c
int flag[2]; /* shared variable */
proc(int process id) {
    while (1) {
        compute;

        flag[process id] = 1;
        while (flag[(process id+1)mod 2] == 1);

        critical section

        flag[process id] = 0;
    }
}
```

Assume that `flag[0]` and `flag[1]` are initialized to 0. Is this a correct solution? Explain your answer clearly.