```c
int mem[MAX_N];

int fibonacci(int index)
{
    if(index < 2)
        return 1;

    if(mem[index - 1] == -1)
        mem[index - 1] = fibonacci(index - 1);

    if(mem[index - 2] == -1)
        mem[index - 2] = fibonacci(index - 2);

    return mem[index - 1] + mem[index - 2];
}
```

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递推