```
int fibonacci(int index)
{
    int re = -1, arr[3] = \{1,1,2\};
    if(index < 2) {
        re = arr[index];
    }else {
        for( int j = 0; j < index - 2; j++) {
            arr[0] = arr[1] + arr[2];
            arr[1] = arr[2];
            arr[2] = arr[0];
        re = arr[2];
    return re;
```

递归记忆搜索递推