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char * i(char * A,int x,int y,int maxx)
{
    return A + x + y * maxx;
}

bool S(char * A,int maxy,int maxx,int x,int y,int endy,int endx)
{
    if(x < 0 || x >= maxx)
        return false;
    if(y < 0 || y >= maxy)
        return false;

    if(x == endx,y == endy)
        return true;

    char * temp = i(A,x,y,maxx);

    if(*temp != 0)
        return false;

    *temp = 2;
    bool result;

    x++;
    result = S(A,maxy,maxx,x,y,endy,endx);
    x--;

    if(result == true)
        return true;

    y--;
    result = S(A,maxy,maxx,x,y,endy,endx);
    y++;

    if(result == true)
        return true;

    x--;
    result = S(A,maxy,maxx,x,y,endy,endx);
    x++;

    if(result == true)
        return true;

    y++;
    result = S(A,maxy,maxx,x,y,endy,endx);
    y--;

    if(result == false)
    {
        *temp = 4;
        return false;
    }

    return true;
}

bool M(char * A,int maxy,int maxx,int begx,int endy,int endx)
{
    return S(A,maxy,maxx,begx,0,endy,endx);
}

```