Wc的小学美术课

WC学长从小学毕业后就再也没学过画画了，因为固执的他坚信世界是由1、0组成的，就连他的画都是由1和0拼凑成的。现在有几张wc小学画的画，你能分辨出他画的是0还是1吗。

图像0的定义：存在1字符且1字符只能是由一个连通块组成，存在且仅存在一个由0字符组成的连通块完全被1所包围。

图像1的定义：存在1字符且1字符只能是由一个连通块组成，不存在任何0字符组成的连通块被1所完全包围。

连通的含义是，只要连续两个方块有公共边，就看做是连通。（只有上下左右四个方向）

完全包围的意思是，该连通块不与边界相接触。

第一行为一个整数t 表示接下来有t组数据。

每组测试数据包含： 第一行两个整数n,m表示图像的长与宽。 接下来n行m列将会是只有01组成的字符画。满足1<=n,m<=100。

如果这个图是1的话，输出1；如果是0的话，输出0，都不是输出-1。

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