「ビリヤード台」の法則を見つけよう

クラス（　　　）番号（　　　）氏名（　　　　　　　　　　　　　）

頂点Aから45度の方向にビリヤードの玉を打ちます。玉は壁で同じ角度でバウンドし、B、C、Dのコーナーにきたら終了です。様々な長さのビリヤード台で①②を調べ、法則を発見しよう。

<例>　縦３、横４の場合

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| ｽﾀｰﾄ | A |  |  |  |  | D |
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|  | B |  |  |  |  | C |

すべてのマスを通りDで終了

①球がすべての正方形のマスを通るのは、縦横がどんな場合？

②終了する場所は？（終了するB、C、Dに〇を付けよう）

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|  |  |  | 横 | 2 |  |  |  | 横 | 3 |  |  |  |  | 横 | 4 |  |  |  |  |  | 横 | 5 |  |  |  |  |  |  | 横 | 6 |  |  |  |  |  |  |  | 横 | 7 |  |  |  |  |  |  |
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|  |  | A |  |  | D |  | A |  |  |  | D |  | A |  |  |  |  | D |  | A |  |  |  |  |  | D |  | A |  |  |  |  |  |  | D |  | A |  |  |  |  |  |  |  | D |
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発見した法則を書こう。