

- 문제

· Input : 세로 길이 n
가로 길이 m ($1 \leq n, m \leq 1000$)
player 수 p ($1 \leq p \leq 9$)

- player 별 확장 속도.

- $n \times m$ 의 게임판 '.'은 cell, 'X'은 벽, 숫자는 player 점령지.

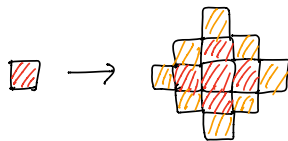


· output : 종료 후 각 player 별 땅 크기.

- 접근

· 이 문제는 전형적인 팡파먹기 bfs와 비슷한 문제이지만
'확장 속도'가 따로 주어진다.

ex) 속도가 2이면



한 단계마다
이만큼 늘어난다.

⇒ player 마다 속도가 다르기 때문에

하나의 큐로는 속도가 다른 각 플레이어의 n, m 을 모두 타이밍에 맞게
관리할 수 없다. → player 수 만큼 큐를 따로 두어 속도 만큼 네 방향으로
큐에 넣고 빼고 또 넣고를 반복해줄 수가 있다.

⇒ 그럼 어떻게 큐에 4개 넣고 각 4개에 대한 16개를 체크할 것인가?

→ 큐에 tuple을 넣어서 진행도를 관리해야 한다. (어떻게?)

→ ① 재귀 호출 하듯이 tuple의 진행도를 C 라고 하면
속도 1당 C 를 넘겨준다.

② 해당 player의 큐 돌기 전에 \forall player의 누적합 배열에
player의 속도를 더해준다.

③ 큐 돌기는 반복문 조건에 $!q[i].empty$ 와 함께 $\&$
($get<0>(q[i].front()) < cur[i]$) 를 체크해

즉면 각 단계 돌기전에 속도를 ^{70%씩 빼고} 더해주고 늘어남 만큼만
진행도 +1, +1 ... ^{← 100% 남음} ... ^{← 50% 남음} ... ^{← 25% 남음} ... ^{← 12.5% 남음} ... ^{← 6.25% 남음} ... ^{← 3.125% 남음} ... ^{← 1.5625% 남음} ... ^{← 0.78125% 남음} ... ^{← 0.390625% 남음} ... ^{← 0.1953125% 남음} ... ^{← 0.09765625% 남음} ... ^{← 0.048828125% 남음} ... ^{← 0.0244140625% 남음} ... ^{← 0.01220703125% 남음} ... ^{← 0.006103515625% 남음} ... ^{← 0.0030517578125% 남음} ... ^{← 0.00152587890625% 남음} ... ^{← 0.000762939453125% 남음} ... ^{← 0.0003814697265625% 남음} ... ^{← 0.00019073486328125% 남음} ... ^{← 0.000095367431640625% 남음} ... ^{← 0.0000476837158203125% 남음} ... ^{← 0.00002384185791015625% 남음} ... ^{← 0.000011920928955078125% 남음} ... ^{← 0.0000059604644775390625% 남음} ... ^{← 0.00000298023223876953125% 남음} ... ^{← 0.000001490116119384765625% 남음} ... ^{← 0.0000007450580596923828125% 남음} ... ^{← 0.00000037252902984619140625% 남음} ... ^{← 0.000000186264514923095703125% 남음} ... ^{← 0.0000000931322574615478515625% 남음} ... ^{← 0.00000004656612873077392578125% 남음} ... ^{← 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