**Experiment No. 07**

**Aim:** To implement a game using AI.

**Code:**

Knowledge Base:

nqueens(N, Queens) :-

numlist(1, N, Rows),

permutation(Rows, Queens),

safe(Queens).

safe([]).

safe([Q|Queens]) :-

safe(Queens, Q, 1),

safe(Queens).

safe([], \_, \_).

safe([Q|Queens], Q0, D0) :-

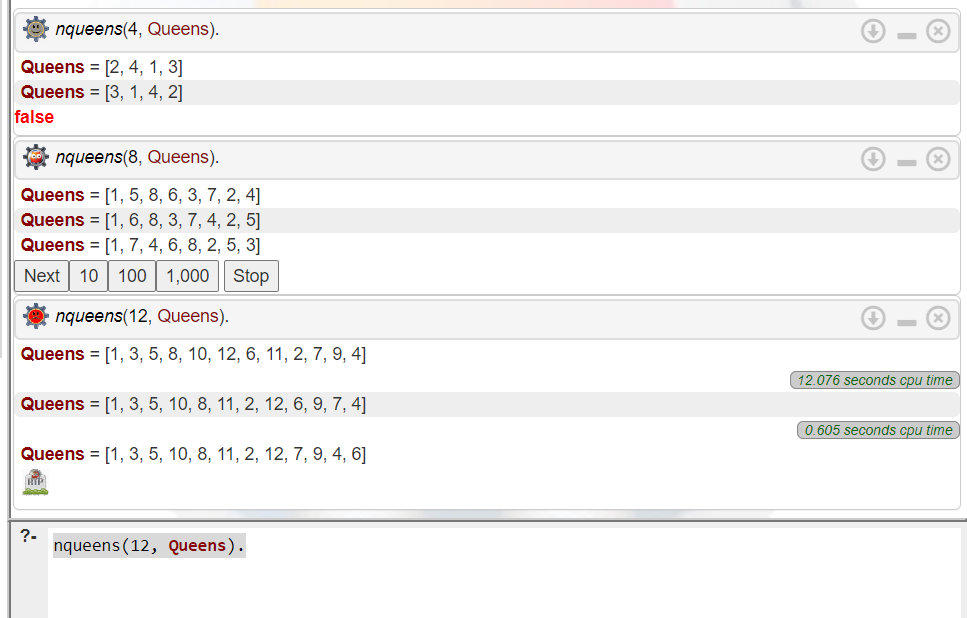
Q0 =\= Q,

abs(Q0 - Q) =\= D0,

D1 is D0 + 1,

safe(Queens, Q0, D1).

**Output:**

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