Speed: As noted Juffly, we only need to proper the forward direction of this result. So we have only to whow that it A is involvable, then each A; is involvable. We will first show that the last matrix in the product, i.e., An is involvable. Let if the any sol of the homogenous system An A = 0. So A = 0.

Multiplying on the light by A, A = 0. And

A, A = ... And An if = 0 on A = 0. Since A is involvable, multiplying on the day of we get A'A if = 0 on A = 0.

In short the homogeneous system An = 0. Les only trivial instance. If you will have a first involvable.

