This challenge idea is excellent; I really love it!

> first draft. of the Chomsky Challenge. . Produce a non- living =ystem that can be put into an environment for a while and --- 1. =e able to discriminate language from noise.. prize . a 1 dollar =ill signed by Noam and 100k.

What is the system allowed to have when it starts? We would need to =efine the environment, for instance text based or audio, or =ovies/youtube. Once the contestants know the environment, they can use =tandard machine learning methods to discern entropy in the signal, and =eparate language-like noise from non language-like noise. Google does =his pretty well, and automatically (but not perfectly) sub-title videos =n a number of languages.
I imagine you want to go beyond that?

> . 2. be able to discriminate coherent sentences from non (we =rovide 10 test sentences).

I suspect that this is harder, Noam might point out that a lot of =rammatically well-formed sentences used in politics are not coherent =-)

> prize a 10 dollar signed Chomsky bill , and 500k. 3. a language =earning module.

Build a system that is able to learn a new language without hand-coding, =nd translate sentences from this language into English and back? =xcellent!

> 20 dollar bill signed and 1 million, 4. a sense making module that =an understand meaning inference.. etc. the non recommendation =ecommendation. . ie the student has a nice family. etc. a 100 =ollar signed bill and 10 million dollars. ? ---
>
> lets also do a minsky challenge and if you want martin a NOVAK =hallenge.

Yes! Let us ask Marvin and Martin about the biggest unsolved problems in =heir field.