

CF Use - solve '3+?=8' without Leta

1. CF interpreter detects it's going nowhere
↳ ~~throwing~~ NoMatchEvent → WM.
2. ↳ processor detects this and activates more thorough solutions trying.
3. ~~searches~~ searches LTM for strategies that may help.

↳ 1. Try to figure out what the unknown token may represent.
↳ ~~use~~ compare to other known things/patterns
↳ looks like: $3+5=?$

2. Once have an idea, try it and see where it goes.
⇒ If, after a while it's going nowhere, go back to (1), and try something else.

Don't use too many jumps on events. Use presence of other events together in WM.

Needs the representation of this in LTM?

Assumes a priority of possible explorations for '?'.

Use entries in WM to remember what attempts have been made to avoid repeating them.

2/ solve $-3+?=8$ without help.

Looking nowhere ~~Inter From Similar~~

→ Attempt To Parse

→ Inter From Similar:

"3+?=8" ⇒ No match in LTM

"[no.]*([op.])?([token])([=])?([number])"

⇒ Search LTM

⇒ Std. Expression.

⇒ Std. Expression with Result

Firstly:

⇒ [number] [op.] [number]

[=] [number]

⇒ Inter: '?' = [number]

if it can find an exact match.

⇒ Otherwise it may only infer that

"3+?=8" is an (unknown) expression.

"3+?=8" ⇒ "[number]
[op.]
[token]
[=]
[number]"

Just looks at each token in turn and takes strongest guess. eg: it knows what a number looks like

• LTM: StdExpression
[number] [op.] [number]

OR

[op.] [number]

OR

[op.] ([number])

• LTM: Fact("number")

• Referenceable for generic reference to the learned concept of a "number".

• Data Rules:

Need a new

'primitive' type: ~~number~~

Ref.

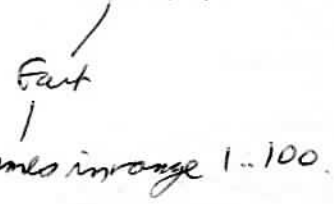
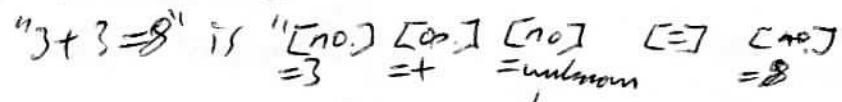
↳ holds string 'guid'
do another memory item
~~ref~~ event.

Goal: should be able to use the same process to infer that "3 | 4" is some kind of operator.

Upon success, Day Dreaming will help put soln into LTM as learnings.

Solve '3+3=8' without help

So, now have:



pull... (see below)

Strategies:

- pick random number ← useful for guess the number games.
- try each in sequence.
- try to infer from "what y gives x?" learnings.

Need 'Range' in WM.

Enter Number Range Processor

↳ Looks for [number] in WM and adds a RangeEvent to WM with a link to that [number].

may add later.

• Pull [number] out of Exon into WM on its own — need to solve this, with link back to ~~every~~ particular when in Exon.

Dealing with trying multiple solutions:

- handled by WM + STM.
- Processors that infer solutions attempted ~~by~~ by A.A. (?) if their prior solutions didn't pan out, as recorded in STM or WM.

Phenomena:

when trying for another solution, I immediately know not try ~~repeating~~ my immediate previous attempt, but I may have to think a bit more to check I didn't try something in the past.

In long term solutions, will need a Perseverance Processor of some sort that helps decide course of action at ~~each~~ each point:

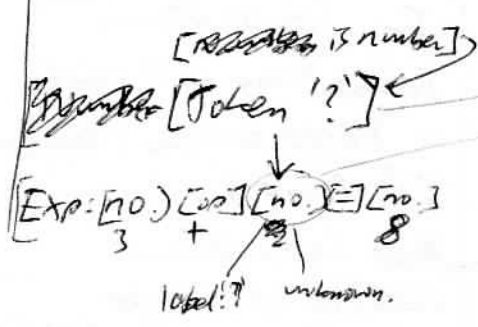
- ask for confirmation,
- ~~or~~ assume ~~is~~ inference is correct & carry on.

Range: long term solution would be to add an extra step of using a processor + LTM to infer range ~~from~~ from various things. But for now just hard-code in a processor.

For Default & Going Nowhere detection, look at:

- are we going in loops?
- is there benefit in ~~trying~~ keeping going?
(ie: for i in 1..100 & i = 50)
- adjusted sense of limits
(ie: 100 tries is max; previously decided need to try 500 times; been instructed to try 50 times).

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Event ref:
 Event
 ref: percent.
 data: ?
 unknown.

Try Things Event with initialized "tried" data.

⇒ Going nowhere → Try Things suitable to numbers.

Quick Impl.

Processors that know how to try:

- pick random
- load sequence range + current position.
- pick next in sequence

AA just picks winner each time.

Long Impl.

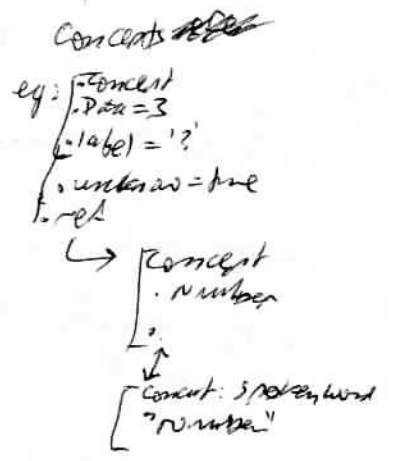
LTM lookup([number], strategies to solve)
 → WM: list of possible strategies

↓ processor picks most likely strategy that hasn't already been tried

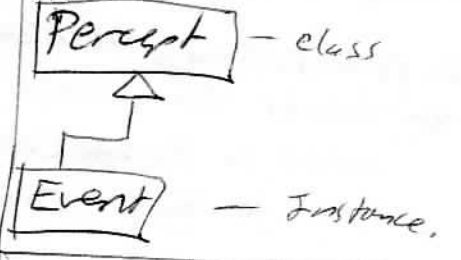
↓ check WM for "Already tried" list, or re-load from STM

~~recreate it~~
 - strategies themselves are pre-learned by processors & LTM, entry just identifies them.
 ... or could be ~~re-learned~~ algorithmic memory items.

may need a concept type.
 eg: [no.] [op] [no.] [=] [no.]



How about:



Should send as percent, but with empty list.