

## Codebook

### **DATA\_RMS:**

NO:	The number of participants.
Sex:	Male or Female.
GRADE:	The grade of participants. Range 1 to 6.
CSPAN:	The mean score of counting memory task. Range 0 (none correct) to 12 (all correct).
CM_Speed:	The mean time of counting (ms) in counting memory task.
CM_E:	The mean error of counting memory task.
PM:	The mean score of primary memory in free recall task. The range of every child depends on the Hebb digit span.
SM:	The mean score of secondary memory in free recall task. The range of every child depends on the Hebb digit span.
HN:	The mean score of every non-repeating trail in Hebb digit task. Range 0 (none correct) to 9 (all correct).
HR:	The mean score of every repeating trail in Hebb digit task. Range 0 (none correct) to 9 (all correct).
RFN:	The mean score of every non-repeating list in fast running memory task. Range 0 (none correct) to 3 (all correct).
RFR:	The mean score of every repeating list in fast running memory task. Range 0 (none correct) to 3 (all correct).
RSN:	The mean score of every non-repeating list in slow running memory task. Range 0 (none correct) to 3 (all correct).
RSR:	The mean score of every repeating list in slow running memory task. Range 0 (none correct) to 3 (all correct).
HI:	The proportion improvement of repeating in Hebb digit task.
RFI:	The proportion improvement of repeating in fast running memory task.
RSI:	The proportion improvement of repeating in slow running memory task.
HL3I:	The proportion improvement of repeating in last three positions of Hebb digit task.

**DATA\_free recall position:**

- NO: The number of participants.
- FC1: The correct number at the first position of all lists. Range 0 (none correct) to 10 (all correct)
- FC2: The correct number at the second position of all lists. Range 0 (none correct) to 10 (all correct)
- ...
- FC12: The correct number at the twelfth position of all lists. Range 0 (none correct) to 10 (all correct)

**DATA\_running span position:**

- NO: The number of participants.
- F1\_1: The response of first position in the first list of fast running memory task. 0 (wrong) and 1 (correct).
- F1\_2: The response of second position in the first list of fast running memory task. 0 (wrong) and 1 (correct).
- ...
- F24\_3: The response of the third position in the twenty-fourth list of fast running memory task. 0 (wrong) and 1 (correct).
- S1\_1: The response of first position in the first list of slow running memory task. 0 (wrong) and 1 (correct).
- S1\_2: The response of second position in the first list of slow running memory task. 0 (wrong) and 1 (correct).
- ...
- S24\_3: The response of the third position in the twenty-fourth list of slow running memory task. 0 (wrong) and 1 (correct).

**DATA\_Hebb position:**

- NO: The number of participants.
- H1\_1: The response of first position in the first list of Hebb digit task. 0 (wrong) and 1 (correct).

H1\_2: The response of second position in the first list of Hebb digit task. 0 (wrong) and 1 (correct).

...

H24\_9: The response of the ninth position in the twenty-fourth list of Hebb digit task. 0 (wrong) and 1 (correct).

### **DATA\_counting speed:**

NO: The number of participants.

Level2: The counting speed (ms) of counting span memory at Level 2.

Level3: The counting speed (ms) of counting span memory at Level 3.

Level4: The counting speed (ms) of counting span memory at Level 4.

Level5: The counting speed (ms) of counting span memory at Level 5.

### **DATA\_RMS slope**

NO: The number of participants.

Free: The slope of free recall task.

HN: The slope of non-repeating Hebb digit task.

HR: The slope of repeating Hebb digit task.

RFN: The slope of non-repeating fast running memory.

RFR: The slope of repeating fast running memory.

RSN: The slope of non-repeating slow running memory.

RSR: The slope of repeating slow running memory.