

ANALYSIS BASED ON DATA FROM HOUSEHOLDS. 20 OUT OF 20 DISTRICTS

Sample description over time



| Table 1: | Sample descrip | tion 2006-20 | 15 | | | | | |
|----------|-----------------------|----------------------|------------------------|-----------------------------|----------|-----------|--|--|
| Year | Districts surveyed | Villages surveyed | Households surveyed | Number of children surveyed | | | | |
| | Surveyeu | Juiveyeu | Surveyed | Age 3-5 | Age 6-14 | Age 15-16 | | |
| 2006 | 18 | 522 | 10686 | 3267 | 13241 | 3064 | | |
| 2007 | 19 | 536 | 10715 | 3512 | 15516 | 2403 | | |
| 2008 | 19 | 546 | 11337 | 3189 | 14036 | 2600 | | |
| 2009 | 19 | 519 | 9702 | 2900 | 11535 | 2400 | | |
| 2010 | 19 | 543 | 11247 | 3344 | 12723 | 2339 | | |
| 2011 | 19 | 550 | 11222 | 2948 | 11616 | 1880 | | |
| 2012 | 19 | 552 | 10848 | 2661 | 9858 | 1936 | | |
| 2013 | 19 | 550 | 10701 | 2491 | 9552 | 1756 | | |
| 2014 | 19 | 531 | 11156 | 2448 | 9070 | 1801 | | |
| 2015 | 20 | 593 | 11840 | 2687 | 8727 | 1727 | | |

School enrollment and out of school children

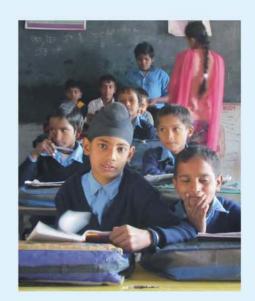
| Age group | Govt. | Pvt. | Other | Not in school | Total |
|------------------|-------|------|-------|---------------|-------|
| Age: 6-14 ALL | 48.5 | 50.0 | 0.1 | 1.5 | 100 |
| Age: 7-16 ALL | 50.0 | 47.1 | 0.1 | 2.8 | 100 |
| Age: 7-10 ALL | 45.1 | 54.0 | 0.1 | 0.8 | 100 |
| Age: 7-10 BOYS | 41.8 | 57.1 | 0.1 | 1.1 | 100 |
| Age: 7-10 GIRLS | 49.1 | 50.3 | 0.2 | 0.4 | 100 |
| Age: 11-14 ALL | 52.9 | 44.8 | 0.0 | 2.3 | 100 |
| Age: 11-14 BOYS | 49.7 | 48.0 | 0.0 | 2.2 | 100 |
| Age: 11-14 GIRLS | 56.8 | 40.8 | 0.0 | 2.4 | 100 |
| Age: 15-16 ALL | 54.4 | 37.2 | 0.0 | 8.4 | 100 |
| Age: 15-16 BOYS | 53.1 | 39.7 | 0.0 | 7.2 | 100 |
| Age: 15-16 GIRLS | 55.9 | 34.4 | 0.0 | 9.7 | 100 |

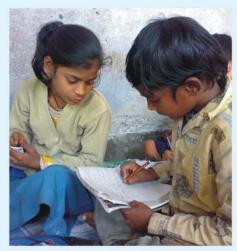
Note: 'Other' includes children going to madarsa and EGS.

'Not in school' = dropped out + never enrolled



| Table 4: Trends over time % Children not in school in age group 6-14 by gender 2006-2015 | | | | | | | | | | |
|--|------|-------|-----|--|--|--|--|--|--|--|
| Year | Boys | Girls | All | | | | | | | |
| 2006 | 3.0 | 3.5 | 3.2 | | | | | | | |
| 2007 | 2.7 | 3.3 | 2.9 | | | | | | | |
| 2008 | 2.8 | 2.8 | 2.8 | | | | | | | |
| 2009 | 5.7 | 5.0 | 5.4 | | | | | | | |
| 2010 | 1.7 | 1.6 | 1.7 | | | | | | | |
| 2011 | 1.7 | 1.4 | 1.6 | | | | | | | |
| 2012 | 1.4 | 1.2 | 1.3 | | | | | | | |
| 2013 | 1.5 | 1.3 | 1.4 | | | | | | | |
| 2014 | 1.2 | 1.9 | 1.5 | | | | | | | |
| 2015 | 1.5 | 1.4 | 1.5 | | | | | | | |







Reading

Table 5: % Children by class and READING level All schools 2015

| Std | Not even letter | Letter | Word | Level 1 (Std I Text) | Level 2 (Std II Text) | Total |
|-------|--------------------|--------|------|-------------------------|--------------------------|-------|
| I. | 21.0 | 38.9 | 25.2 | 7.1 | 7.8 | 100 |
| II | 9.8 | 25.7 | 29.2 | 17.8 | 17.5 | 100 |
| III | 4.5 | 14.3 | 20.3 | 20.8 | 40.1 | 100 |
| IV | 3.7 | 9.2 | 14.7 | 20.6 | 51.8 | 100 |
| V | 3.2 | 5.5 | 8.7 | 18.2 | 64.5 | 100 |
| VI | 2.9 | 5.1 | 7.1 | 8.6 | 76.3 | 100 |
| VII | 2.0 | 5.0 | 4.6 | 7.5 | 80.9 | 100 |
| VIII | 1.6 | 2.3 | 2.8 | 6.2 | 87.0 | 100 |
| Total | 6.2 | 13.5 | 14.2 | 13.4 | 52.8 | 100 |

How to read this table: Each cell shows the highest level in reading achieved by a child. For example, in Std III, 4.5% children cannot even read letters, 14.3% children can read letters but not more, 20.3% children can read words but not Std I level text or higher, 20.8% children can read Std I level text but not Std II level text, and 40.1 children can read Std II level text. For each Std, the total of all these exclusive categories is 100%.



Table 7: Trends over time % Children who can READ Std II level text by class and school type 2006-2015

| | | Gov | rt. sch | ools | | Pvt. schools | | | | | |
|------|-----------|----------|-----------|------------|-------------|--------------|----------|-----------|------------|-------------|--|
| Year | Std IV | Std V | Std VI | Std VII | Std VIII | Std IV | Std V | Std VI | Std VII | Std VIII | |
| 2006 | 28.7 | 44.3 | 58.8 | 74.6 | 79.2 | 53.7 | 66.1 | 74.8 | 83.8 | 87.4 | |
| 2007 | 45.5 | 65.9 | 71.8 | 82.6 | 88.4 | 52.7 | 61.3 | 75.7 | 80.5 | 88.8 | |
| 2008 | 32.8 | 61.3 | 70.5 | 78.7 | 86.6 | 48.0 | 66.0 | 76.8 | 85.3 | 81.7 | |
| 2009 | 42.1 | 64.3 | 71.4 | 76.6 | 85.4 | 57.7 | 67.6 | 78.5 | 77.4 | 89.6 | |
| 2010 | 48.1 | 68.7 | 80.4 | 86.6 | 87.4 | 47.1 | 71.9 | 79.7 | 87.0 | 89.7 | |
| 2011 | 51.9 | 71.9 | 79.5 | 85.7 | 88.88 | 58.9 | 71.9 | 78.5 | 85.6 | 88.2 | |
| 2012 | 49.9 | 69.5 | 75.4 | 82.8 | 84.4 | 57.8 | 73.5 | 83.2 | 88.8 | 90.0 | |
| 2013 | 47.2 | 66.5 | 73.6 | 83.9 | 83.6 | 53.7 | 69.9 | 77.8 | 87.7 | 89.1 | |
| 2014 | 50.9 | 60.9 | 71.0 | 74.7 | 87.3 | 63.1 | 73.8 | 80.0 | 86.2 | 84.4 | |
| 2015 | 51.7 | 61.5 | 71.8 | 78.3 | 86.1 | 52.0 | 68.3 | 81.4 | 85.3 | 88.3 | |

Reading Tool

ਜੀਤੂ ਦੇ ਘਰ ਇੱਕ ਕੁੱਤਾ ਹੈ। ਉਸ ਦਾ ਨਾਮ ਜੈਕੀ ਹੈ। ਉਸ ਦਾ ਰੰਗ ਕਾਲਾ ਹੈ। ਇੱਕ ਦਿਨ ਰਾਤ ਨੂੰ ਉਹਨਾਂ ਦੇ ਘਰ ਚੋਰ ਆ ਗਏ। ਸਾਰੇ ਸੁੱਤੇ ਪਏ ਸਨ। ਜੈਕੀ ਨੂੰ ਚੋਰਾਂ ਦੀ ਅਵਾਜ਼ ਸੁਣਾਈ ਦਿੱਤੀ। ਉਸ ਨੇ ਜ਼ੋਰ–ਜ਼ੋਰ ਨਾਲ ਭੌਂਕਣਾ ਸ਼ੁਰੂ ਕਰ ਦਿੱਤਾ। ਅਵਾਜ਼ ਸੁਣ ਕੇ ਸਾਰੇ ਉੱਠ ਗਏ। ਜੀਤੂ ਨੇ ਚੋਰਾਂ ਨੂੰ ਫੜ ਲਿਆ। ਉਹਨਾਂ ਨੇ ਚੋਰਾਂ ਨੂੰ ਪੁਲਿਸ ਦੇ ਹਵਾਲੇ ਕਰ ਦਿੱਤਾ।



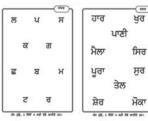


Table 6: Trends over time % Children who can READ at least Std I level text by class and school type 2006-2015

| | | Gov | t. sch | ools | | | Pv | t. scho | ols | |
|------|----------|------|------------|-----------|----------|----------|-----------|---------|-----------|----------|
| Year | Std I | Std | Std III | Std IV | Std V | Std I | Std II | Std | Std IV | Std V |
| 2006 | 6.4 | 16.2 | 38.8 | 61.8 | 75.0 | 11.9 | 41.1 | 62.1 | 76.6 | 85.8 |
| 2007 | 8.5 | 21.5 | 47.8 | 70.3 | 85.8 | 12.9 | 36.0 | 64.9 | 75.5 | 83.1 |
| 2008 | 5.4 | 15.9 | 40.9 | 66.0 | 84.5 | 9.2 | 37.3 | 61.3 | 81.3 | 93.2 |
| 2009 | 8.1 | 21.5 | 44.2 | 72.5 | 86.1 | 21.0 | 40.9 | 62.2 | 83.3 | 85.9 |
| 2010 | 6.3 | 19.6 | 52.4 | 77.4 | 87.9 | 9.9 | 30.3 | 54.2 | 79.6 | 89.1 |
| 2011 | 5.0 | 23.0 | 57.3 | 79.4 | 86.3 | 10.2 | 30.5 | 60.5 | 82.8 | 88.3 |
| 2012 | 3.1 | 22.4 | 51.4 | 71.4 | 86.8 | 14.2 | 38.4 | 68.0 | 81.5 | 86.2 |
| 2013 | 5.6 | 18.4 | 52.3 | 68.8 | 82.9 | 10.5 | 40.2 | 68.2 | 77.0 | 85.8 |
| 2014 | 2.4 | 19.4 | 42.4 | 67.8 | 76.1 | 20.5 | 39.4 | 62.8 | 81.2 | 88.0 |
| 2015 | 12.3 | 25.8 | 56.6 | 71.6 | 81.3 | 16.4 | 42.3 | 64.6 | 73.2 | 84.1 |

While reading Tables 6 and 7, following things need to be kept in mind:

ASER is a "floor" level test. The highest level in the ASER reading tool is the ability to read a Std II level text. All children (age 5 to 16) are assessed using the same tool. ASER does not assess children using grade level tools.

Table 6 shows the percentage of children in Std I to V in government and private schools who can read at least a Std I level text. Similarly, Table 7 shows the percentage of children in Std IV to VIII who can read a Std II level text.

Table 6 shows that in 2015 there has been an improvement in reading ability in government schools in all primary grades (I-V). While the gap between reading levels in government and private schools remains, it is substantially smaller this year. For instance, in government schools, the percentage of children in Std III who could read at least a Std I level text, increased from 42.4% in 2014 to 56.6% in 2015 — an increase of over 14 percentage points. In comparison, in private schools the corresponding increase was only about 2 percentage points, from 62.8% to 64.6%. While reading ability has improved in government schools in higher grades, the gains have not been substantial as compared to those for primary grades (Table 7).

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Arithmetic

| Std | Not | Recognize | e numbers | Can | Can | Total | |
|-------|---------|-----------|-----------|----------|--------|-------|--|
| 3tu | even1-9 | 1-9 | 10-99 | subtract | divide | iotai | |
| Į | 14.8 | 29.6 | 43.6 | 8.1 | 3.8 | 100 | |
| H | 4.0 | 23.5 | 43.8 | 25.1 | 3.6 | 100 | |
| Ш | 1.5 | 10.6 | 31.4 | 39.2 | 17.4 | 100 | |
| IV | 1.3 | 7.9 | 21.9 | 28.8 | 40.0 | 100 | |
| V | 1.4 | 5.3 | 15.5 | 25.2 | 52.7 | 100 | |
| VI | 1.3 | 3.4 | 20.1 | 24.9 | 50.3 | 100 | |
| VII | 1.1 | 3.8 | 21.8 | 19.6 | 53.9 | 100 | |
| VIII | 0.9 | 2.4 | 18.4 | 18.4 | 59.9 | 100 | |
| Total | 3.4 | 11.0 | 27.1 | 23.5 | 35.0 | 100 | |

How to read this table: Each cell shows the highest level in arithmetic achieved by a child. For example, in Std III, 1.5% children cannot even recognize numbers 1-9, 10.6% children can recognize numbers upto 9 but not more, 31.4% children can recognize numbers upto 99 but cannot do subtraction, 39.2% children can do subtraction but cannot do division, and 17.4% children can do division. For each Std, the total of all these exclusive categories is 100%.



| % Ch | | who d | ver tir an do | | ON by | class | and sc | hool t | ype | |
|------|-----------|----------|------------------|------------|-------------|-----------|----------|-----------|------------|-------------|
| | | Gov | rt. sch | ools | | | Pv | t. scho | ols | |
| Year | Std IV | Std V | Std VI | Std VII | Std VIII | Std IV | Std V | Std VI | Std VII | Std VIII |
| 2007 | 37.3 | 55.2 | 61.4 | 72.9 | 80.9 | 41.1 | 50.9 | 67.4 | 77.0 | 83.8 |
| 2008 | 18.1 | 39.7 | 49.6 | 57.1 | 71.4 | 36.3 | 49.7 | 60.5 | 71.5 | 73.2 |
| 2009 | 28.4 | 48.6 | 55.2 | 61.9 | 71.2 | 36.7 | 54.0 | 66.8 | 66.2 | 77.6 |
| 2010 | 47.8 | 70.8 | 76.8 | 78.4 | 80.2 | 44.4 | 68.0 | 75.0 | 82.7 | 85.6 |
| 2011 | 43.1 | 62.5 | 65.4 | 67.7 | 70.5 | 44.5 | 59.0 | 67.2 | 73.6 | 78.9 |
| 2012 | 29.5 | 48.6 | 58.0 | 55.0 | 59.9 | 34.5 | 56.5 | 60.4 | 71.0 | 71.3 |
| 2013 | 29.9 | 47.1 | 52.0 | 58.9 | 62.2 | 39.1 | 53.7 | 58.7 | 68.8 | 76.6 |
| 2014 | 23.8 | 37.1 | 41.0 | 46.2 | 56.4 | 39.4 | 53.9 | 62.8 | 67.1 | 70.7 |

^{2015 | 38.8 | 51.5 | 44.4 | 47.8 | 53.4 | 41.3 | 54.2 | 57.1 | 64.1 | 68.0} ** ASER 2006 arithmetic results are not comparable to the subsequent years because of a change in the assessment tool. Hence this data is not included in the above tables.

| ਅੰਕ ਪਹਿਚਾਣ 1—9 | ਸੰਖਿਆ ਪਹਿਚਾਣ 10—99 | | ਸਨ <u>ਰ</u> ਿ | ਭਾਗ |
|-------------------|-----------------------|------------|---------------|---------|
| 3 7 | 65 3 | 41 _ 13 | 64 - 48 | 7)928(|
| 1 4 | 92 2 | 84 - 49 | 73 - 36 | 6)769(|
| | 47 7 | 2 56 | 31 | |
| 8 2 | 54 8 | 7 | - 13 | 8) 987 |
| 5 9 | 29 1 | 45 - 18 | 53 - 24 | 4) 519(|

| | | who o | | | st SUB | TRACT | ION b | y class | and | | | |
|------|---------------|-----------|------------|-----------|----------|--------------|-----------|------------|-----------|----------|--|--|
| | Govt. schools | | | | | Pvt. schools | | | | | | |
| Year | Std I | Std II | Std III | Std IV | Std V | Std | Std II | Std III | Std IV | Std V | | |
| 2007 | 11.0 | 22.7 | 46.4 | 67.6 | 82.9 | 14.6 | 37.5 | 62.5 | 74.7 | 78.3 | | |
| 2008 | 3.9 | 11.8 | 34.8 | 58.8 | 79.2 | 9.0 | 34.9 | 55.9 | 79.6 | 87.1 | | |
| 2009 | 8.0 | 20.0 | 46.0 | 71.0 | 82.6 | 20.7 | 36.7 | 62.6 | 78.5 | 83.4 | | |
| 2010 | 7.8 | 28.4 | 62.0 | 80.8 | 89.9 | 17.6 | 37.3 | 66.5 | 82.5 | 90.0 | | |
| 2011 | 4.9 | 29.8 | 60.3 | 74.6 | 81.5 | 15.6 | 40.2 | 63.1 | 79.7 | 88.5 | | |
| 2012 | 1.7 | 16.0 | 40.6 | 55.6 | 70.4 | 12.2 | 40.6 | 64.8 | 74.4 | 80.2 | | |
| 2013 | 6.0 | 17.7 | 42.9 | 57.7 | 74.2 | 9.0 | 43.2 | 68.1 | 76.9 | 84.1 | | |
| 2014 | 1.1 | 10.8 | 32.1 | 48.3 | 58.7 | 15.5 | 40.8 | 60.6 | 78.1 | 82.6 | | |
| 2015 | 8.2 | 17.1 | 48.9 | 65.9 | 73.2 | 14.1 | 37.2 | 63.1 | 72.1 | 83.7 | | |

Table 9: Trends over time

While reading Tables 9 and 10, following things need to be kept in mind:

ASER is a "floor" level test. The highest level in the ASER arithmetic tool is the ability to do a numerical division problem (dividing a three digit number by a one digit number). In Punjab, children are expected to do such computations by Std III. All children (age 5 to 16) are assessed using the same tool. ASER does not assess children using grade level tools.

Table 9 shows the percentage of children in Std I to V in government and private schools who can do at least subtraction. Similarly, Table 10 shows the percentage of children in Std IV to VIII who can do division.

Ability to do arithmetic operations has improved significantly in 2015 in government schools, especially for grades I to V. For instance, in government schools, the percentage of children in Std III who can do subtraction or more, increased from 32.1% in 2014 to 48.9% in 2015 - an increase of about 17 percentage points. In contrast, the increase in private schools was only about 3 percentage points, from 60.6% to 63.1% (Table 9). Similarly, the percentage of children in Std V who could do division, in government schools, increased from 37.1% in 2014 to 51.5% in 2015 (Table 10). However, these large gains are not seen in higher grades (Std VI to VIII) in private schools.

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ANALYSIS BASED ON DATA FROM GOVERNMENT SCHOOLS. 20 OUT OF 20 DISTRICTS

School observations
In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools is based on these visits.

| Table 11: Number of | schools | visited | 2010-2 | 015 | | |
|---|---------|---------|--------|------|------|------|
| Type of school | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Primary schools (Std I-IV/V) | 391 | 457 | 469 | 424 | 473 | 538 |
| Upper primary schools (Std I-VII/VIII) | 58 | 32 | 56 | 74 | 23 | 23 |
| Total schools visited | 449 | 489 | 525 | 498 | 496 | 561 |

| Table 12: Student and teacher attendance on the day of visit 2010-2015 | | | | | | | | | | |
|--|------|------|------|------|------|------|--|--|--|--|
| All schools | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | | | | |
| % Enrolled children present (Average) | 82.7 | 81.6 | 80.6 | 79.7 | 81.4 | 76.9 | | | | |
| % Teachers present (Average) | 88.5 | 86.9 | 80.0 | 83.8 | 85.5 | 79.9 | | | | |

| All schools | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--|------|------|------|------|------|------|
| % Schools with total enrollment of 60 or less | 17.2 | 19.6 | 17.4 | 22.8 | 25.4 | 27.6 |
| % Schools where Std II children were observed sitting with one or more other classes | 52.5 | 43.7 | 53.7 | 51.1 | 47.5 | 57.9 |
| % Schools where Std IV children were observed sitting with one or more other classes | 37.6 | 41.2 | 44.7 | 46.7 | 42.4 | 53.9 |

RTE indicators

The Right of Children to Free and Compulsory Education (RTE) Act, 2009 specifies a series of norms and standards for a school. Data on selected measurable indicators of RTE are collected in ASER.

| Table 14: Schools meeting selected RTE norms 2010-2015 | | | | | | | | | | |
|--|---|------|------|------|------|------|------|--|--|--|
| % Schoo | ls meeting the following RTE norms: | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | | | |
| PTR & CTR | Pupil-teacher Ratio (PTR) | 34.9 | 30.4 | 34.6 | 45.4 | 64.0 | 60.5 | | | |
| | Classroom-teacher Ratio (CTR) | 76.9 | 82.2 | 80.3 | 78.9 | 69.3 | 65.2 | | | |
| Building | Office/store/office cum store | 78.5 | 79.3 | 80.0 | 85.4 | 78.5 | 81.0 | | | |
| | Playground | 69.3 | 71.2 | 71.0 | 62.0 | 70.6 | 64.8 | | | |
| | Boundary wall/fencing | 82.8 | 83.9 | 83.0 | 89.2 | 88.9 | 88.9 | | | |
| Drinking water | No facility for drinking water | 8.9 | 8.4 | 8.0 | 8.9 | 8.3 | 2.2 | | | |
| | Facility but no drinking water available | 8.0 | 8.8 | 9.3 | 9.5 | 10.7 | 6.7 | | | |
| | Drinking water available | 83.1 | 82.9 | 82.8 | 81.5 | 81.0 | 91.2 | | | |
| | Total | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| Toilet | No toilet facility | 0.9 | 1.9 | 0.6 | 0.8 | 1.4 | 0.2 | | | |
| | Facility but toilet not useable | 37.9 | 39.5 | 28.9 | 18.7 | 19.4 | 24.1 | | | |
| | Toilet useable | 61.2 | 58.7 | 70.5 | 80.5 | 79.2 | 75.7 | | | |
| | Total | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| Girls' toilet | No separate provision for girls' toilet | 7.3 | 4.9 | 4.4 | 4.9 | 6.5 | 5.6 | | | |
| | Separate provision but locked | 16.9 | 4.0 | 8.6 | 7.5 | 5.8 | 7.1 | | | |
| | Separate provision, unlocked but not useable | 26.5 | 34.8 | 21.4 | 13.7 | 16.2 | 17.6 | | | |
| | Separate provision, unlocked and useable | 49.4 | 56.2 | 65.6 | 74.0 | 71.6 | 69.7 | | | |
| | Total | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| Library | No library | 4.1 | 5.6 | 9.4 | 23.2 | 11.3 | 14.4 | | | |
| | Library but no books being used by children on day of visit | 30.0 | 24.0 | 44.7 | 42.3 | 49.0 | 37.3 | | | |
| | Library books being used by children on day of visit | 66.0 | 70.4 | 46.0 | 34.6 | 39.7 | 48.4 | | | |
| | Total | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| Mid-day meal | Kitchen shed for cooking mid-day meal | 94.7 | 93.9 | 97.7 | 96.8 | 94.5 | 96.8 | | | |
| | Mid-day meal served in school on day of visit | 97.9 | 96.4 | 95.5 | 94.1 | 92.7 | 95.5 | | | |





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