Question: What are the outputs of the followi program?
LIMIT = 8
x = 1
<pre>while x < LIMIT: x = 2 * x print('x = ',x)</pre>
(a) 1 2 4 (b) 2 4 (c) 2 4 8 (d) 2 4 8 16

Different approach to the problem

- You can tell that (a) is not correct because the first number printed is 2
- You know that the loop is doubling the number each iteration so the only uncertainty is what the last number printed by the loop is
- You can tell that the last time the loop is executed is when x is 4. If x = 8, the loop is not executed.
- When x = 4, the loop doubles x to 8 and then outputs the number 8, so the answer is ...

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