

April 21st

Odd terms:

1st term: 2

3rd term: 3

5th term: 4

n^{th} term = $\frac{1}{2}n + 1\frac{1}{2}$

Therefore 21st term = $\frac{1}{2} \times 21 + 1\frac{1}{2} = 12$

Even terms

2nd term: 1

4th term: 0

6th term: -1

n^{th} term = $2 - \frac{1}{2}n$

Therefore 20th term = $2 - \frac{1}{2} \times 20 = -8$

Product of 20th and 21st term = $-8 \times 12 = \mathbf{-96}$