

0 1/p: n1=10 n2=5
 1 \Rightarrow 1 1 1 4 5
 2 \Rightarrow 1 2 3 4 5
 3 \Rightarrow 1 2 3 4 5
 4 \Rightarrow 1 2 3 4 5
 5 \Rightarrow 1 2 3 4 5
 6 \Rightarrow 1 2 3 4 5
 7 \Rightarrow 1 2 3 4 5
 8 \Rightarrow 1 2 3 4 5
 9 \Rightarrow 1 2 3 4 5
 10 \Rightarrow 1 1 3 4 5

0 2 1/p: n1=10 n2=5 n3=7 n4=3
 (n3 \leq n1 and n4 \leq n2)
 1 \Rightarrow 1 1 1 4 5
 2 \Rightarrow 1 2 3 4 5
 3 \Rightarrow 1 2 3 4 5
 4 \Rightarrow 1 2 3 4 5
 5 \Rightarrow 1 2 3 4 5
 6 \Rightarrow 1 2 3 4 5
 7 \Rightarrow 1 2 3 4 5
 8 \Rightarrow 1 2 3 4 5
 9 \Rightarrow 1 2 3 4 5
 10 \Rightarrow 1 1 3 4 5

Pattern 6: (Vp odd no.)

n=5

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2 1
 1 3
 0 5
 1 3
 2 1

n=7

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3 1
 2 3
 1 5
 0 7
 1 5
 2 3
 3 1

n=9

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4 1 0 9 4 1
 3 3 1 7
 2 5 2 5
 1 7 3 3

5 \rightarrow 2
 7 \rightarrow 3
 9 \rightarrow 4
 11 \rightarrow 5

$$\frac{5}{2} = 2$$

$$\frac{7}{2} = 3$$

$$\frac{9}{2} = 4$$

$$\text{int } a = 5/2$$

$$\text{sat}(a); // 2$$