

Each number below is an integer, please find the largest possible value of n .

$$\frac{376!}{10^n} \quad 75 + 15 + 3 = 93$$

$$\frac{143!}{5^n} \quad 28 + 5 + 1 = 34$$

$$\frac{471!}{11^n} \quad 42 + 3 = 45$$

$$\frac{120!}{3^n} \quad 40 + 13 + 4 + 1 = 58$$

$$\frac{125!}{4^n} \quad 31 + 7 + 1 = 39$$

$$\frac{201!}{6^n} \quad 33 + 5 = 38$$

$$\frac{340!}{11^n} \quad 30 + 2 = 32$$

$$\frac{436!}{10^n} \quad 87 + 17 + 3 = 107$$

$$\frac{70!}{7^n} \quad 10 + 1 = 11$$

$$\frac{406!}{6^n} \quad 135 + 45 + 15 + 5 + 1 = 201$$

$$\frac{60!}{8^n} \quad 30 + 15 + 7 + 3 + 1 = 56 \quad \left\lfloor \frac{56}{3} \right\rfloor = 18$$

$$\frac{290!}{4^n} \quad 145 + 72 + 36 + 18 + 9 + 4 + 2 + 1 = 287$$

$$\left\lfloor \frac{287}{2} \right\rfloor = 143$$

$$\frac{309!}{5^n} \quad 61 + 12 + 2 = 75$$

$$\frac{276!}{10^n} \quad 55 + 11 + 2 = 68$$

$$\frac{399!}{11^n} \quad 36 + 3 = 39$$

$$\frac{456!}{6^n} \quad 152 + 50 + 16 + 5 + 1 = 225$$

$$\frac{387!}{6^n} \quad 129 + 43 + 14 + 4 + 1 = 191$$

$$\frac{398!}{2^n} \quad 199 + 99 + 49 + 24 + 12 + 6 + 3 + 1 = 293$$

$$\frac{55!}{4^n} \quad 27 + 13 + 6 + 3 + 1 = 50 \quad \left\lfloor \frac{50}{2} \right\rfloor = 25$$

$$\frac{257!}{4^n} \quad 128 + 64 + 32 + 16 + 8 + 4 + 2 + 1 = 255$$

$$\left\lfloor \frac{255}{2} \right\rfloor = 127$$

$$\frac{77!}{8^n} \quad 38 + 19 + 9 + 4 + 2 + 1 = 73 \quad \left\lfloor \frac{73}{3} \right\rfloor = 24$$

$$\frac{181!}{11^n} \quad 16 + 1 = 17$$

$$\frac{381!}{7^n} \quad 54 + 7 + 1 = 62$$

$$\frac{44!}{9^n} \quad 14 + 4 + 1 = 19 \quad \left\lfloor \frac{19}{2} \right\rfloor = 9$$

$$\frac{85!}{3^n} \quad 28 + 9 + 3 + 1 = 41$$

$$\frac{239!}{5^n} \quad 47 + 9 + 1 = 57$$

$$\frac{64!}{11^n} \quad 5$$

$$\frac{428!}{2^n} \quad 214 + 107 + 53 + 26 + 13 + 6 + 3 + 1 = 423$$

$$\frac{482!}{11^n} \quad 43 + 3 = 46$$

$$\frac{483!}{7^n} \quad 69 + 9 + 1 = 79$$

$$\frac{375!}{8^n} \quad 187 + 93 + 46 + 23 + 11 + 5 + 2 + 1 \\ = 280 + 80 + 8 = 368 \quad \left\lfloor \frac{368}{3} \right\rfloor = 122$$

$$\frac{327!}{10^n} \quad 65 + 13 + 2 = 80$$

$$\frac{114!}{3^n} \quad 38 + 12 + 4 + 1 = 55$$

$$\frac{224!}{9^n} \quad 74 + 24 + 8 + 2 = 108 \quad \left\lfloor \frac{108}{2} \right\rfloor = 54$$

$$\frac{448!}{11^n} \quad 40 + 3 = 43$$

$$\frac{408!}{10^n} \quad 81 + 16 + 3 = 100$$

$$\frac{205!}{9^n} \quad 68 + 22 + 7 + 2 = 99 \quad \left\lfloor \frac{99}{2} \right\rfloor = 49$$

$$\frac{386!}{2^n} \quad 193 + 96 + 48 + 24 + 12 + 6 + 3 + 1 \\ = 193 + 120 + 60 + 10 = 383$$

$$\frac{103!}{5^n} \quad 20 + 4 = 24$$

$$\frac{381!}{5^n} \quad 76 + 15 + 3 = 94$$

$$\frac{34!}{9^n} \quad 11 + 3 + 1 = 15 \quad \left\lfloor \frac{15}{2} \right\rfloor = 7$$

$$\frac{184!}{8^n} \quad 92 + 46 + 23 + 11 + 5 + 2 + 1 = 180$$

$$\left\lfloor \frac{180}{3} \right\rfloor = 60$$

$$\frac{274!}{7^n} \quad 39 + 5 = 44$$

$$\frac{255!}{2^n} \quad [27 + 63 + 31 + 15 + 7 + 3 + 1] = 247$$

$$\frac{74!}{10^n} \quad 14 + 2 = 16$$

$$\frac{236!}{9^n} \quad 78 + 26 + 8 + 2 = 114$$

$$\lfloor \frac{114}{2} \rfloor = 57$$

$$\frac{55!}{4^n} \quad 27 + 13 + 6 + 3 + 1 = 50$$

$$\lfloor \frac{50}{2} \rfloor = 25$$

$$\frac{76!}{4^n} \quad 38 + 19 + 9 + 4 + 2 + 1 = 73$$

$$\lfloor \frac{73}{2} \rfloor = 36$$

$$\frac{126!}{2^n} \quad 63 + 31 + 15 + 7 + 3 + 1 = 120$$

$$\frac{321!}{3^n} \quad 107 + 35 + 11 + 3 + 1 = 157$$