

# Complete List of Base-11 PPDIs

*In what follows, PPDIs are shown in Base-11, followed by the corresponding values in decimal notation. Base-11 numerals are represented by decimal values in brackets. This scheme is both more perspicuous and more general than employing alphabetic characters to represent numerals whose value is larger than 9.*

## Base-11, Order-1 PPDIs (11)

[0]<sub>11</sub>  
0<sub>10</sub>

[1]<sub>11</sub>  
1<sub>10</sub>

[2]<sub>11</sub>  
2<sub>10</sub>

[3]<sub>11</sub>  
3<sub>10</sub>

[4]<sub>11</sub>  
4<sub>10</sub>

[5]<sub>11</sub>  
5<sub>10</sub>

[6]<sub>11</sub>  
6<sub>10</sub>

[7]<sub>11</sub>  
7<sub>10</sub>

$$[8]_{11}$$
$$8_{10}$$

$$[9]_{11}$$
$$9_{10}$$

$$[10]_{11}$$
$$10_{10}$$

### Base-11, Order-2 PPDIs (2)

$$[5][6]_{11}$$
$$61_{10}$$

$$[6][6]_{11}$$
$$72_{10}$$

### Base-11, Order-3 PPDIs (6)

$$[1][0][5]_{11}$$
$$126_{10}$$

$$[3][0][7]_{11}$$
$$370_{10}$$

$$[7][0][8]_{11}$$
$$855_{10}$$

$$[9][6][6]_{11}$$
$$1,161_{10}$$

$[10][0][6]_{11}$   
 $1,216_{10}$

$[10][6][4]_{11}$   
 $1,280_{10}$

### Base-11, Order-4 PPDIs (1)

$[8][0][0][9]_{11}$   
 $10,657_{10}$

### Base-11, Order-5 PPDIs (14)

$[1][1][7][2][0]_{11}$   
 $16,841_{10}$

$[1][1][7][2][1]_{11}$   
 $16,842_{10}$

$[1][2][4][7][0]_{11}$   
 $17,864_{10}$

$[1][2][4][7][1]_{11}$   
 $17,865_{10}$

$[2][5][8][4][0]_{11}$   
 $36,949_{10}$

$[2][5][8][4][1]_{11}$   
 $36,950_{10}$

$[4][3][9][3][5]_{11}$   
 $63,684_{10}$

$[4][5][9][1][5]_{11}$   
 $66,324_{10}$

$[4][9][5][6][3]_{11}$   
 $71,217_{10}$

$[6][1][7][8][8]_{11}$   
 $90,120_{10}$

$[6][8][9][1][0]_{11}$   
 $99,594_{10}$

$[6][8][9][1][1]_{11}$   
 $99,595_{10}$

$[9][7][2][8][8]_{11}$   
 $141,424_{10}$

$[10][8][2][7][6]_{11}$   
 $157,383_{10}$

## Base-11, Order-6 PPDIs (2)

$[7][2][6][3][10][0]_{11}$   
 $1,165,098_{10}$

$[7][2][6][3][10][1]_{11}$   
 $1,165,099_{10}$

## Base-11, Order-7 PPDIs (2)

$[3][1][9][2][7][0][3]_{11}$   
 $5,611,015_{10}$

$[6][8][2][9][4][1][9]_{11}$   
 $11,959,539_{10}$

## Base-11, Order-8 PPDIs (3)

$[2][4][2][6][6][0][3][9]_{11}$   
 $46,478,562_{10}$

$[10][5][0][6][3][4][10][6]_{11}$   
 $203,821,954_{10}$

$[10][8][7][9][9][0][2][6]_{11}$   
 $210,315,331_{10}$

## Base-11, Order-9 PPDIs (8)

$[1][9][4][6][0][3][2][0][3]_{11}$   
 $397,800,208_{10}$

$[3][9][4][3][4][6][7][9][4]_{11}$   
 $826,098,079_{10}$

$[6][1][1][8][4][9][9][9][5]_{11}$   
 $1,308,772,162_{10}$

[6][5][9][1][1][4][2][2][10]<sub>11</sub>  
 1,399,714,480<sub>10</sub>

[6][6][4][0][10][4][9][5][4]<sub>11</sub>  
 1,410,315,438<sub>10</sub>

[6][10][4][2][7][7][9][2][6]<sub>11</sub>  
 1,488,546,263<sub>10</sub>

[7][3][9][6][8][10][5][5][3]<sub>11</sub>  
 1,576,015,136<sub>10</sub>

[10][7][8][10][7][7][4][0][7]<sub>11</sub>  
 10: 2,295,894,300<sub>10</sub>

## Base-11, Order-10 PPDIs (6)

[4][3][6][6][4][1][5][5][6][10]<sub>11</sub>  
 10,203,085,980<sub>10</sub>

[5][8][7][1][8][5][8][6][6][10]<sub>11</sub>  
 13,644,164,324<sub>10</sub>

[6][2][3][4][4][5][8][9][5][10]<sub>11</sub>  
 14,642,680,876<sub>10</sub>

[10][4][9][6][1][4][2][8][3][10]<sub>11</sub>  
 24,623,149,627<sub>10</sub>

[10][4][10][0][0][1][5][9][6][8]<sub>11</sub>  
 24,631,806,603<sub>10</sub>

[10][5][2][0][6][0][9][10][6][8]<sub>11</sub>  
 24,691,225,226<sub>10</sub>

### Base-11, Order-11 PPDIs (1)

[6][10][6][9][3][8][9][8][3][4][3]<sub>11</sub>  
 180,672,308,259<sub>10</sub>

### Base-11, Order-12 PPDIs (5)

[2][5][1][9][6][3][0][9][3][8][8][0]<sub>11</sub>  
 704,720,016,374<sub>10</sub>

[2][5][1][9][6][3][0][9][3][8][8][1]<sub>11</sub>  
 704,720,016,375<sub>10</sub>

[2][5][7][9][4][8][6][3][5][9][4][8]<sub>11</sub>  
 718,838,467,190<sub>10</sub>

[2][8][4][7][9][8][8][1][9][4][6][6]<sub>11</sub>  
 789,245,913,572<sub>10</sub>

[5][5][6][6][10][2][3][1][9][6][2][9]<sub>11</sub>  
 1,571,878,240,854<sub>10</sub>

### Base-11, Order-13 PPDIs (8)

[3][2][2][1][6][10][1][6][5][2][1][6][5]<sub>11</sub>  
 10,041,625,107,200<sub>10</sub>

$[3][4][3][10][8][7][0][6][2][0][2][0][2]_{11}$   
 $10,659,775,840,397_{10}$

$[3][4][7][8][4][10][5][7][6][0][4][1][3]_{11}$   
 $10,758,019,747,082_{10}$

$[4][9][7][0][3][2][2][4][9][6][10][6][7]_{11}$   
 $15,303,766,893,939_{10}$

$[5][2][0][8][4][7][10][2][9][9][8][2][5]_{11}$   
 $16,282,640,834,531_{10}$

$[7][2][4][9][1][10][6][3][6][3][4][0][10]_{11}$   
 $22,665,013,641,335_{10}$

$[7][4][3][0][8][4][9][5][0][10][2][10][0]_{11}$   
 $23,189,867,175,992_{10}$

$[7][4][3][0][8][4][9][5][0][10][2][10][1]_{11}$   
 $23,189,867,175,993_{10}$

## Base-11, Order-14 PPDIs (2)

$[3][0][8][5][6][7][0][3][6][3][4][6][10][7]_{11}$   
 $105,995,971,449,078_{10}$

$[6][0][8][8][2][0][3][7][10][1][10][3][2][6]_{11}$   
 $209,631,054,021,956_{10}$



## Base-11, Order-15 PPDIs (1)

$[5][2][10][3][1][1][0][5][4][3][2][10][0][0][4]_{11}$   
 $2,000,063,211,403,250_{10}$

## Base-11, Order-16 PPDIs (0)

None

## Base-11, Order-17 PPDIs (8)

$[2][2][0][6][7][2][4][5][3][2][1][4][10][0][7][3][5]_{11}$   
 $100,483,748,184,868,383_{10}$

$[2][2][6][0][1][6][7][5][2][5][5][8][0][10][1][3][6]_{11}$   
 $102,537,499,253,899,419_{10}$

$[2][6][0][0][4][9][10][1][6][2][6][4][7][6][5][2][4]_{11}$   
 $116,978,333,330,886,614_{10}$

$[2][7][1][4][6][10][8][0][6][4][9][8][0][0][0][3][7]_{11}$   
 $121,679,930,162,910,555_{10}$

$[4][4][10][6][2][8][10][4][1][0][8][4][2][0][2][4][5]_{11}$   
 $204,521,375,126,007,494_{10}$

$[5][1][5][0][10][4][4][9][3][6][9][8][0][1][7][4][10]_{11}$   
 $235,857,297,934,104,296_{10}$

$[5][5][5][0][0][10][8][7][1][5][9][6][5][9][1][9][10]_{11}$

252,536,716,783,382,525<sub>10</sub>

[7][2][9][5][3][10][9][4][10][4][1][1][6][0][2][10][5]<sub>11</sub>

333,605,480,940,812,008<sub>10</sub>

## Base-11, Order-18 PPDIs (5)

[2][7][1][7][8][8][10][6][2][9][3][9][4][1][3][5][4][6]<sub>11</sub>

1,339,681,967,633,704,305<sub>10</sub>

[3][1][10][3][7][9][7][5][9][9][7][3][4][3][5][6][6][9]<sub>11</sub>

1,605,474,601,558,754,606<sub>10</sub>

[4][3][7][1][9][5][10][8][6][6][1][1][0][2][10][7][8][2]<sub>11</sub>

2,189,587,263,229,807,960<sub>10</sub>

[4][10][1][7][3][6][9][4][9][10][2][4][8][8][3][9][6][6]<sub>11</sub>

2,488,246,003,311,410,359<sub>10</sub>

[6][9][5][8][2][3][9][10][6][3][4][10][9][0][6][1][7][10]<sub>11</sub>

3,470,235,282,060,240,528<sub>10</sub>

## Base-11, Order-19 PPDIs (0)

None

## Base-11, Order-20 PPDIs (1)

[3][8][4][3][10][4][8][5][3][8][4][8][8][4][10][3][4][7][9][9]<sub>11</sub>

230,159,831,586,382,621,592<sub>10</sub>

**Base-11 PPDIs**

[http://deimel.org/rec\\_math/11.pdf](http://deimel.org/rec_math/11.pdf)

## Base-11, Order-21 PPDIs (7)

[1][9][4][2][2][6][8][2][5][1][2][6][4][10][8][4][9][0][3][2][8]<sub>11</sub>  
 1,246,552,458,316,638,376,956<sub>10</sub>

[2][1][7][7][0][4][1][8][3][4][10][4][9][4][9][9][5][7][7][9][2]<sub>11</sub>  
 1,449,134,006,459,046,143,722<sub>10</sub>

[3][1][7][1][8][0][0][9][4][1][10][1][10][1][0][0][5][2][1][2][5]<sub>11</sub>  
 2,119,201,865,115,277,883,891<sub>10</sub>

[3][3][6][5][5][10][10][6][4][5][7][9][1][5][2][3][5][8][4][9][8]<sub>11</sub>  
 2,237,889,535,115,365,504,348<sub>10</sub>

[3][5][0][9][5][3][5][7][1][3][3][0][3][2][1][4][10][9][9][6][10]<sub>11</sub>  
 2,328,838,885,171,085,723,138<sub>10</sub>

[4][7][1][10][9][0][7][2][1][7][4][10][2][5][7][8][6][4][6][10][8]<sub>11</sub>  
 3,130,144,280,594,137,733,308<sub>10</sub>

[10][9][10][10][0][2][10][10][2][7][4][10][3][9][0][8][2][10][7][9][5]<sub>11</sub>  
 7,338,597,912,405,229,780,337<sub>10</sub>

## Base-11, Order-22 PPDIs (3)

[1][7][2][8][0][5][7][10][3][9][6][7][4][8][1][3][5][9][8][8][5][5]<sub>11</sub>  
 12,276,560,348,794,282,943,341<sub>10</sub>

[1][8][4][3][0][9][7][1][5][7][1][9][7][10][5][6][5][6][7][9][1][2]<sub>11</sub>

13,044,009,380,628,632,736,783<sub>10</sub>

[2][9][3][5][0][2][6][4][10][7][0][1][7][5][3][1][1][10][8][1][0][6]<sub>11</sub>  
 21,066,645,550,009,838,533,211<sub>10</sub>

### Base-11, Order-23 PPDIs (0)

None

### Base-11, Order-24 PPDIs (0)

None

### Base-11, Order-25 PPDIs (6)

[1][1][9][10][0][1][3][8][7][0][3][0][6][7][0][6][5][9][4][1][8][4][8][4][5]<sub>11</sub>  
 11,551,872,368,213,806,503,526,580<sub>10</sub>

[1][3][4][1][7][9][6][7][0][4][2][1][2][1][3][10][2][9][2][9][9][4][3][5][6]<sub>11</sub>  
 12,874,331,249,986,263,741,812,420<sub>10</sub>

[2][1][2][5][6][2][8][0][1][7][2][6][7][7][1][4][8][6][1][10][7][9][10][0][4]<sub>11</sub>  
 20,798,905,717,035,536,385,752,846<sub>10</sub>

[2][2][0][3][8][2][10][5][1][5][8][6][7][9][7][2][5][5][9][10][5][7][1][7][7]<sub>11</sub>  
 21,518,089,102,612,936,062,757,843<sub>10</sub>

[3][1][4][8][10][7][0][4][9][10][4][8][7][2][2][0][7][7][1][10][3][4][2][5][8]<sub>11</sub>  
 30,836,599,360,287,898,115,707,986<sub>10</sub>

**Base-11 PPDIs**

[3][2][10][0][3][4][10][1][2][9][1][7][5][9][1][4][0][6][0][10][7][9][2][5][2]<sub>11</sub>  
 32,156,405,128,902,857,904,841,852<sub>10</sub>

### Base-11, Order-26 PPDIs (0)

None

### Base-11, Order-27 PPDIs (1)

[1][8][0][10][7][4][4][3][1][8][7][10][2][0][9][6][8][4][1][0][3][7][1][5][8][7][7]<sub>11</sub>  
 2,068,150,736,366,782,885,739,448,611<sub>10</sub>

### Base-11, Order-28 PPDIs (1)

[2][3][2][0][10][1][2][4][5][1][7][3][6][0][7][7][4][7][10][2][8][1][10][5][1][0][3][4]<sub>11</sub>  
 30,021,188,974,924,274,874,257,875,005<sub>10</sub>

### Base-11, Order-29 PPDIs (6)

[1][5][0][2][7][0][2][8][10][10][6][5][9][4][5][9][2][8][6][0][5][4][6][7][2][8][5][2][8]<sub>11</sub>  
 210,045,778,694,505,701,903,891,688,266<sub>10</sub>

[1][5][0][2][7][3][8][0][1][0][1][3][7][9][1][5][9][10][1][8][2][7][4][8][10][4][1][8][0]<sub>11</sub>  
 210,048,887,504,508,247,206,796,583,645<sub>10</sub>

[1][5][0][2][7][3][8][0][1][0][1][3][7][9][1][5][9][10][1][8][2][7][4][8][10][4][1][8][1]<sub>11</sub>  
 210,048,887,504,508,247,206,796,583,646<sub>10</sub>

$[2][1][10][7][9][10][6][4][4][10][4][7][6][2][0][7][5][7][7][7][3][6][1][9][9][1][2][6][8]_{11}$   
 $314,304,595,600,926,707,956,598,976,400_{10}$

$[2][8][9][10][6][10][0][2][1][4][8][6][0][2][8][3][2][4][7][1][3][0][5][6][0][6][10][10][3]_{11}$   
 $405,177,723,687,188,404,341,986,250,976_{10}$

$[2][8][9][10][6][10][0][7][0][10][2][0][1][0][10][2][2][8][2][6][2][6][0][6][4][8][6][3][2]_{11}$   
 $405,177,760,346,288,808,572,487,702,372_{10}$

## Base-11, Order-30 PPDIs (2)

$[2][6][3][7][4][6][0][3][4][5][3][6][10][1][2][4][3][0][9][3][1][10][3][10][4][8][1][9][10][6]_{11}$   
 $4,086,043,681,161,622,858,477,853,408,053_{10}$

$[2][6][7][2][1][9][10][7][6][10][2][7][0][9][3][0][8][7][8][8][7][5][3][10][9][0][10][4][8][5]_{11}$   
 $4,132,238,375,695,881,516,920,684,205,293_{10}$

## Base-11, Order-31 PPDIs (1)

$[1][8][2][0][10][6][8][6][6][9][10][2][1][4][6][5][8][8][1][1][3][6][8][3][2][3][8][6][0][2][10]_{11}$   
 $30,440,949,509,684,980,443,349,291,005,963_{10}$

## Base-11, Order-32 PPDIs (4)

$[1][1][0][7][4][8][7][0][0][2][7][9][2][3][3][2][10][4][5][10][7][9][2][2][7][0][9][3][1][1][8][0]_{11}$   
 $210,465,029,947,597,249,145,008,585,050,384_{10}$

$[1][1][0][7][4][8][7][0][0][2][7][9][2][3][3][2][10][4][5][10][7][9][2][2][7][0][9][3][1][1][8][1]_{11}$   
 $210,465,029,947,597,249,145,008,585,050,385_{10}$

[2][0][10][2][3][3][1][8][6][3][4][1][1][4][2][6][2][6][4][5][7][3][0][10][10][7][5][0][1][10][5][5]<sub>11</sub>  
400,081,460,987,033,687,123,955,723,218,446<sub>10</sub>

[2][2][5][6][9][6][6][4][9][4][5][7][9][9][9][4][9][8][1][1][10][8][10][10][6][10][0][4][6][9][8][9]<sub>11</sub>  
427,708,299,317,502,602,249,771,505,746,445<sub>10</sub>

## Base-11, Order-33 PPDIs (7)

[1][4][6][10][2][1][2][7][10][2][2][1][6][1][2][1][0][6][7][10][2][5][1][4][2][0][5][4][4][0][6][4][5]<sub>11</sub>  
3,000,015,653,344,920,953,965,008,263,529,123<sub>10</sub>

[1][4][8][9][7][4][8][8][2][6][7][8][1][0][10][1][2][8][6][6][6][1][2][10][5][6][0][7][4][10][0][2][4]<sub>11</sub>  
3,034,095,712,740,906,076,323,409,869,875,623<sub>10</sub>

[1][4][10][5][10][4][8][7][5][10][0][3][9][6][4][6][2][3][0][4][6][0][2][5][3][8][9][1][0][2][5][1][0]<sub>11</sub>  
3,063,081,834,081,069,592,495,204,123,070,393<sub>10</sub>

[1][4][10][5][10][4][8][7][5][10][0][3][9][6][4][6][2][3][0][4][6][0][2][5][3][8][9][1][0][2][5][1][1]<sub>11</sub>  
3,063,081,834,081,069,592,495,204,123,070,394<sub>10</sub>

[2][4][5][10][2][5][6][1][2][0][9][9][4][5][2][8][3][7][10][7][5][9][1][4][8][5][7][3][10][0][10][10][6]<sub>11</sub>  
5,094,000,402,815,516,489,359,355,732,336,849<sub>10</sub>

[2][4][9][6][8][6][8][9][0][2][9][10][7][5][0][4][10][9][8][0][1][8][10][6][1][4][7][10][9][8][10][8][6]<sub>11</sub>  
5,158,334,376,825,790,486,372,599,327,170,754<sub>10</sub>

[3][3][10][7][6][8][3][5][0][9][2][9][10][8][8][8][9][6][10][10][8][7][6][8][0][0][7][1][3][0][10][10][10]<sub>11</sub>  
7,096,535,751,302,056,970,722,226,035,974,594<sub>10</sub>

## Base-11, Order-34 PPDIs (0)

None

## Base-11, Order-35 PPDIs (1)

[1][10][8][2][9][5][10][10][8][2][1][1][7][10][4][10][3][8][4][9][5][5][7][3][5][3][2][6][0][1][7][2][0][6][8]<sub>11</sub>  
 505,169,710,192,677,986,573,242,641,196,525,952<sub>10</sub>

## Base-11, Order-36 PPDIs (0)

None

## Base-11, Order-37 PPDIs (4)

[1][3][4][10][10][0][0][3][1][1][8][9][4][2][3][2][9][10][0][1][1][8][5][0][7][6][8][7][0][2][10][0][6][8][4][9][3]<sub>11</sub>  
 40,618,688,629,508,183,227,752,541,176,324,649,935<sub>10</sub>

[1][7][0][9][10][9][0][10][5][3][6][0][2][8][10][7][1][4][6][2][2][10][5][6][2][9][8][0][1][7][4][4][6][0][9][10][3]<sub>11</sub>  
 50,816,270,614,515,879,144,532,567,602,785,605,356<sub>10</sub>

[1][7][1][7][7][9][9][9][9][7][6][2][6][3][6][0][7][5][5][10][10][10][10][3][0][1][1][7][2][7][8][9][4][8][1][10][7]<sub>11</sub>  
 51,019,118,959,113,350,232,235,564,690,405,604,314<sub>10</sub>

[1][10][6][2][9][0][3][8][7][5][0][3][9][10][2][10][1][6][10][7][4][0][5][2][5][9][1][10][0][1][0][3][4][10][1][6][8]<sub>11</sub>  
 60,613,496,394,681,697,453,434,677,090,621,678,278<sub>10</sub>



## Base-11, Order-38 PPDIs (2)

[1][5][2][6][7][5][0][10][8][4][10][8][7][10][8][6][10][0][7][1][7][7][6][8][10][7][1][5][1][0][0][2][9][7][3][5][2][8]<sub>11</sub>  
 501,929,556,959,404,044,860,099,584,733,325,567,593<sub>10</sub>

[2][0][9][0][8][10][4][2][8][9][10][8][9][1][8][4][7][10][8][0][10][10][2][7][2][3][4][5][4][7][1][7][2][1][10][1][10][7]<sub>11</sub>  
 705,578,896,701,012,251,663,263,279,765,404,864,910<sub>10</sub>

## Base-11, Order-39 PPDIs (1)

[1][0][9][5][3][2][0][6][1][10][3][8][10][4][10][5][2][10][2][8][7][4][4][2][9][1][7][4][1][7][4][0][3][3][6][8][8][0][2]<sub>11</sub>  
 4,033,513,753,624,925,166,740,825,110,291,883,855,969<sub>10</sub>

## Base-11, Order-40 PPDIs (0)

None

## Base-11, Order-41 PPDIs (2)

[1][1][2][8][2][8][0][5][10][2][2][6][0][2][7][7][0][9][1][10][1][5][9][7][4][6][5][10][6][3][10][3][7][8][6][3][10][0][7][5][9]<sub>11</sub>  
 504,022,963,025,289,582,434,880,339,729,607,588,857,087<sub>10</sub>

[1][1][3][1][2][4][10][5][3][6][3][3][1][10][10][4][7][7][8][10][0][10][9][2][8][5][3][4][2][1][4][8][8][5][5][7][8][9][9][3][9]<sub>11</sub>  
 505,374,420,762,055,714,480,331,790,293,521,909,656,548<sub>10</sub>

## Base-11, Order-42 PPDIs (0)

None

## Base-11, Order-43 PPDIs (0)

None

## Base-11, Order-44 PPDIs (0)

None

## Base-11, Order-45 PPDIs (1)

[1][2][3][4][4][10][10][1][2][10][7][2][1][8][0][3][4][2][2][9][1][2][10][8][10][10][4][9][6][3][5][6][8][0][8][3][10][2][6][8][4][5][6][10][4]<sub>11</sub>  
 8,017,673,815,273,748,650,049,141,076,488,293,469,804,187,443<sub>10</sub>

Theoretical base-11, maximum-order PPDi: 69

Actual base-11, maximum-order PPDi: 45

Number of base-11 PPDIs: 135