

```

1  --获取汉字拼音和拼音首字母的功能函数
2  --作者: david.liu
3  --email/msn: david2068@gmail.com
4  --日期: 2006-10-06 19:00--23:59
5  --select GetHzFullPY('中华人民共和国') from dual;
6  --select GetHzPYCAP('中华人民共和国') from dual;
7
8  --函数GetHzFullPY(string)用于获取汉字字符串的拼音
9  --select GetHzFullPY('中华人民共和国') from dual;
10 --返回: ZhongHuaRenMinGongHeGuo
11
12 --函数GetHzPYCAP(string)用于获取拼音首字母
13 --select GetHzPYCAP('中华人民共和国') from dual;
14 --返回ZHRMGHG
15
16 CREATE OR REPLACE TYPE THZPY_LIST AS VARRAY (526) OF VARCHAR2(6);
17
18 CREATE OR REPLACE TYPE TROMA_NUM_LIST AS VARRAY (94) OF VARCHAR2(2);
19
20 CREATE OR REPLACE TYPE TGREECE_ALPHABET_LIST AS VARRAY (24) OF VARCHAR2(2);
21
22 DROP TYPE TPYIndex_list;
23
24 CREATE OR REPLACE TYPE TPYIndex_191_list IS VARRAY(191) OF NUMBER;
25
26 CREATE OR REPLACE TYPE TPYIndex_list IS VARRAY(10) OF TPYIndex_191_list;
27 /
28
29 CREATE OR REPLACE FUNCTION GetHzPY_by_index(
30   p_PY_Index number)
31 RETURN VARCHAR2 IS
32   v_PY_List THZPY_LIST := THZPY_LIST(
33     'a',      'aes',    'ai',    'an',    'ang',    'ao',    'ba',    'bai',    'baik',
34     'ban',    'bang',   'bao',   'be',    'bei',    'ben',    'beng',   'bi',    'bia',
35     'biao',   'bie',    'bin',   'bing', 'bo',    'bu',    'ca',    'cai',    'cal',
36     'cang',   'cao',    'ce',    'cen',   'ceng',   'ceok',   'ceom',   'ceon',   'ceor',
37     'chai',   'chan',   'chang', 'chao', 'che',    'chen',   'cheng',   'chi',    'chon',
38     'chu',    'chua',   'chuai', 'chuan', 'chuang', 'chui',   'chun',   'chuo',   'ci',
39     'cong',   'cou',    'cu',    'cuan', 'cui',    'cun',   'cuo',    'da',    'dai',
40     'dang',   'dao',    'de',    'defa', 'dei',    'deli',   'dem',    'den',    'deng',
41     'di',     'dia',   'dian',   'diao', 'die',    'dim',    'ding',   'diu',    'dong',
42     'du',     'duan',  'dug',    'dui',   'dul',    'dun',   'duo',    'e',      'ei',
43     'eng',    'eo',     'eol',    'eom',   'eos',    'er',     'fa',     'fan',    'fang',
44     'fen',    'feng',   'fenwa', 'fiao',  'fo',     'fou',    'fu',     'fui',    'ga',
45     'gai',    'gan',    'gang',   'gao',   'ge',     'gei',    'gen',    'geng',   'geo',
46     'gib',    'go',     'gong',   'gongli', 'gou',    'gu',     'gua',    'guai',   'guan',
47     'gui',    'gun',    'guo',    'ha',    'hai',    'hal',    'han',    'hang',   'hao',
48     'he',     'hei',    'hem',    'hen',   'heng',   'heui',   'ho',     'hol',    'hong',
49     'hu',     'hua',    'huai',   'huan',   'huang',  'hui',    'hun',    'huo',    'hwa',
50     'i',      'ji',     'jia',    'jialun', 'jian',   'jiang',  'jiao',   'jie',    'jin',
51     'jiong',  'jiu',    'jou',    'ju',    'juan',   'jue',    'jun',    'ka',     'kai',
52     'kan',    'kang',   'kao',    'ke',     'keg',    'kei',    'kem',    'ken',    'keng',
53     'keol',   'keop',   'keos',   'keum',   'ki',     'kong',   'kos',    'kou',    'ku',
54     'kuai',   'kuan',   'kuang',  'kui',    'kun',    'kuo',    'kweok',  'kwi',    'la',
55     'lan',    'lang',   'lao',    'le',     'lei',    'lem',    'len',    'leng',   'li',
56     'lian',   'liang',  'liao',   'lie',    'lin',    'ling',   'liu',    'liwa',   'lo',
57     'lou',    'lu',     'luan',   'lue',    'lun',    'luo',    'lv',     'm',      'ma',
58     'man',    'mang',   'mangmi', 'mao',    'mas',    'me',     'mei',    'men',    'meng',
59     'mi',     'mian',   'miao',   'mie',    'min',    'ming',   'miu',    'mo',     'mol',
60     'mu',     'myeo',   'myeon',  'myeong', 'n',      'na',     'nai',    'nan',    'nang',
61     'ne',     'nei',    'nem',    'neng',   'neus',   'ng',     'ngag',   'ngai',
62     'ni',     'nian',   'niang',  'niao',   'nie',    'nin',    'ning',   'niu',    'nong',
63     'nu',     'nuan',   'nue',    'nun',    'nung',   'nuo',    'nv',     'nve',    'o',
64     'ol',     'on',     'ou',     'pa',     'pai',    'pak',    'pan',    'pang',   'pao',
65     'pen',    'peng',   'peol',   'phas',   'phdeng', 'phoi',   'phos',   'pi',     'pian',
66     'pie',    'pin',    'ping',   'po',     'pou',    'ppun',   'pu',     'q',      'qi',
67     'qian',   'qiang',  'qianke', 'qianwa', 'qiao',   'qie',    'qin',    'qing',   'qion',
68     'qu',     'quan',   'que',    'qun',    'ra',     'ram',    'ran',    'rang',   'rao',
69     'ren',    'reng',   'ri',     'rong',   'rou',    'ru',     'rua',    'ruan',   'rui',
70     'ruo',    'sa',     'saeng',  'sai',    'sal',    'san',    'sang',   'sao',    'se',
71     'sei',    'sen',    'seng',   'seo',    'seon',   'sha',    'shai',   'shan',   'shan',
72     'she',    'shei',   'shen',   'sheng',  'shi',    'shike',  'shiwa',  'shou',   'shu',
73     'shuai',  'shuan',  'shuang', 'shui',   'shun',   'shuo',   'shw',    'si',     'so',
74     'song',   'sou',    'su',     'suan',   'sui',    'sun',    'suo',    'ta',     'tae',
75     'tan',    'tang',   'tao',    'tap',    'te',     'tei',    'teng',   'teo',    'teul',
76     'ti',     'tian',   'tiao',   'tie',    'ting',   'tiu',    'tol',    'ton',    'tong'

```

```
77      'tu',      'tuan',    'tui',    'tun',    'tuo',    'uu',      'wa',      'wai',    'wan'
78      'wei',     'wen',     'weng',   'wie',    'wo',     'wu',      'xi',      'xia',    'xian'
79      'xiao',    'xie',     'xin',    'xing',   'xiong',  'xiu',     'xu',      'xuan',   'xue'
80      'ya',      'yan',     'yang',   'yao',    'ye',     'yen',     'yi',      'yin',    'ying'
81      'yong',    'you',     'yu',     'yuan',   'yue',    'yug',     'yun',     'za',     'zad'
82      'zan',     'zang',    'zao',    'ze',     'zei',    'zen',     'zeng',    'zha',    'zhai'
83      'zhang',   'zhao',    'zhe',    'zhei',   'zhen',   'zheng',   'zhi',     'zhong',  'zhou'
84      'zhua',    'zhuai',   'zhuan',  'zhuang', 'zhui',   'zhun',    'zhuo',    'zi',     'zo'
85      'zou',     'zu',      'zuan',   'zui',    'zun',    'zuo'
86  );
87  BEGIN
88      IF (p_PY_Index>0) AND (p_PY_Index<527) THEN
89          RETURN INITCAP(v_PY_List(p_PY_Index));
90      ELSE
91          RETURN '';
92      END IF;
93  END GetHzPY_by_index;
94  /
95
96  CREATE OR REPLACE FUNCTION get_greece_alphabet_py(p_Index NUMBER)
97  RETURN NUMBER IS
98      v_greece_alphabet_list TGREECE_ALPHABET_LIST := TGREECE_ALPHABET_LIST(
99          'a','b','g','d','e','z','e','th','i','k','l','m','n','x','o','p','r',
100         's','t','u','ph','kh','ps','o'
101     );
102  BEGIN
103      IF (p_Index>0) AND (p_Index<95) THEN
104          RETURN v_greece_alphabet_list(p_Index);
105      ELSE
106          RETURN '';
107      END IF;
108  end get_greece_alphabet_py;
109  /
110
111  CREATE OR REPLACE FUNCTION get_roma_num_py(p_Index NUMBER)
112  RETURN NUMBER IS
113      v_rom_num_list TROMA_NUM_LIST := TROMA_NUM_LIST(
114          '1','2','3','4','5','6','7','8','9','10','','','','','','',
115          '1','2','3','4','5','6','7','8','9','10','11','12','13','14','15','16','17','18','19'
116          '1','2','3','4','5','6','7','8','9','10','11','12','13','14','15','16','17','18','19'
117          '1','2','3','4','5','6','7','8','9','10','','',
118          '1','2','3','4','5','6','7','8','9','10','','',
119          '1','2','3','4','5','6','7','8','9','10','11','12','',''
120      );
121  BEGIN
122      IF (p_Index>0) AND (p_Index<95) THEN
123          RETURN v_rom_num_list(p_Index);
124      ELSE
125          RETURN '';
126      END IF;
127  end get_roma_num_py;
128  /
129
130  CREATE OR REPLACE FUNCTION get_py_index_01(p_Index1 NUMBER, p_Index NUMBER)
131  RETURN NUMBER IS
132      v_list01 TPYIndex_list := TPYIndex_list(
133          TPYIndex_191_list(483,389,458,273,262, 50,395, 88,350,232,482, 24,182,172,178,213, 42
134          117,477,477,456,182,157,508,161,394,478,471,121,182,146,158, 90,395,279,190,201,
135          437,269,311, 29,469,472,326,386,276,341,410,103, 65, 39,507,141,122,243,235,477,
136          186,249,507, 0,483,408,415,128,471,499,471, 68,475,460,180,475,482,500,231, 97,
137          451,172,355,456, 7, 24,115,423,102,459,503,159,147, 25, 44,501,389,361,108,263,
138          341,455,474,112, 55,450, 81,508,320,483, 84, 96,456,477,463,172, 3,478,328,393,
139          117,422,522,487,184,459,470,463,494,459,301,291,462,467,509,522, 17,328,477,408,
140          477,506,147,250,510, 26,351, 18,502, 59,473,500, 18,459,351,395, 13,166,151,460,
141          125,107,266, 24,155,168,141,352, 59,464,393,445,145,220,477,140,478,261,467, 4,
142          242,106,245, 40, 48,470,509,366,175,408, 69),
143          TPYIndex_191_list(418,297,179,181,435,505,526, 50,247,184,399,435,393,445, 25,278,461
144          467,140,209,456,477,117,232,167,479,459,376,320,457,262,458,466, 81,184,507,220,
145          408,168,461,175, 21,431,110,471, 15,483,463,161,506,507, 24,182,474,522,232,449,
146          234, 55,520, 0,125,432,399,258,421,515,464,333,339,122,232,415,346,109,507,520,
147          245,411,236,167, 89,518, 16,456,184,277, 28,175,475,386,346,479, 47,341,368,508,
148          57,451,483, 24,431,472,112,422,455, 98, 45,394,191, 81, 40, 15,498,165,474,500,
149          521,472,482,467,498, 59,117,117,507,262,172,477,462,470,408, 92,499,505,440, 15,
150          491,346,451,412,507,413,458,484,364,301,487,176,249, 83,422,149,178,457,388,341,
151          353, 46, 51,376, 15,461,481,474,421,417,473,107, 24,460,490,136,376,225,481,493,
152          520,322,411,513,483,499,522,389, 55,180,147),
```

```
153 TPYIndex_191_list(501,348,478, 81,462,241, 15,330,179,231,242,251,341,459,421,479, 89
154 181,443,525,337,223, 43,140,339,427,513,451,172, 25,166, 57,434,388,474,111,459,
155 483, 98,235, 25,136,459,459,265,475,179,340,345,112,509, 3,374,477,187,299,421,
156 477, 71,211, 0,175, 51,177,386,490, 30, 23, 4,420, 72, 41,221,477,179,341,259,
157 456,297,349,291, 43,234,247,213, 13,483, 21,491,507,408,482,149,348,347,229,427,
158 451,240, 51, 42,460,433,462,229,246,491,306,422,472,246,279,491,465,369,369,441,
159 43,291,291,179,472,395,396,343, 0,150,393, 90, 9,134,165,456,369,232,483,147,
160 432,336,172,477,254,357,472,254,498,181,137,181,254,509,135,467,482,191,477,261,
161 395,259,184,208,265,117,462,261,420,123,161,317,117,265,340,175,412,257,441,136,
162 180,348, 89,122,478, 3,229, 31,266,516, 65),
163 TPYIndex_191_list(408, 97,179,235,457, 91,108,108,184, 51,506,112,271,507,112,112,189
164 147,361, 55,172,341, 66,172, 70,449,186,229,117,351, 84,265,236,508, 22,178,178,
165 388, 42,128, 55,214, 97,106,178, 59,180, 90,246,494,484, 67,194,386, 55, 67,229,
166 110, 42,339, 0, 55,518,123,337, 97,348,517,175,172,472,168, 97,507,456,137,394,
167 175,498,189,342, 54, 42,513,242,229,322,388,208,137,162,498,517,231,184,237,141,
168 177,141,175,175,439,172,175,175,507, 42,523,268,229,510,471,180,199,462,507,477,
169 510,268,223,185,208,473,447,461,270,213,178,234,194,180,124,265, 48,222,481,194,
170 185,348,242, 26,220,189,262, 89,467,456,477,470,473,394,233,242,330,395,172,342,
171 177,352,460,477,469,108,185,439,184, 70,250,470,470,247,229, 45,460,352,487,182,
172 13,253, 18,121,121,477,322,184,474,125, 98),
173 TPYIndex_191_list(133, 68,182,133,280,182,477,176,192,161,351,108,346,492,213,161,483
174 214,231,231,414, 91,182,351,457,194,472,351,470,292,522,395,457,449,449,462,388,
175 172,401,213,457,462,357,473,349,390, 48,467,457,214,172, 98,457,376,472,503,147,
176 471, 81,499, 0,318, 2,346,471,507,252,431,391,435,524,110,494,484,229, 83,347,
177 6,141,472,229, 43,341,229,472,472,484,159,262,365,351,204,225, 91,513,393,393,
178 393,477, 69,398,186, 7,371,395,517,458,461,172,487,369, 61,137,350, 48, 93,159,
179 264,252,468,518, 97,475,313,168,477, 50,347,462,335,162,159,483,306,469,366,313,
180 124,187,247,125,452,339,456,177,487, 48,394,444,452, 98,395,185,321,452,270,357,
181 81,395,509,434,457,477,339,333,518,467,477,461,471,351,459,445,335, 22,117,473,
182 168,420, 68,447,526, 26,418,459,168,339,106),
183 TPYIndex_191_list( 98,507,510,470,461,210,395,433,275,468,448,223,439,465,482,261,292
184 487,240,335,252,522,151,459,223,334,232, 7,264,247,415,117,147,485,482,136,136,
185 15,147,477,341,441,472,449,229,350, 45,493,471, 90,339, 81,347,255,159,428,203,
186 232,222,386, 0,519,455,478,339,447,342, 4,494,292,483,432,220,457, 3,300,517,
187 499,488,461,460,516,456,452,431,136,339,339, 70,475,518,441, 65,151,471,339,503,
188 232,459,479,137,494,143,246,290, 81,352,445,130,422, 4, 70,483,503,509, 41,448,
189 483,491,474,262,161,487,164,484,172,508,451,386,467,165,498,472,232,483,377,189,
190 345,472,388,321,416,480,451,479,327, 15,131,493,168,431,474,461,342,379,481,159,
191 462,249, 40,145,366,447,172,318,456,459,518,242,447,174,417, 60,374,132,276,342,
192 18, 6,231,524,510,268,421,177, 49,177,189),
193 TPYIndex_191_list(421,393, 3,461,241,461,161,166,143,467,459,494, 43,334, 73,249,161
194 374,177,461,162,250,357,461,461,172,214,461,149,248,345,467,445,421,470,456,525,
195 108,189,166, 30, 55,488, 70,483,444,457,339,149,231,467,166,478,470,474,408,472,
196 479, 68,500, 0,517,299,485,462,345,484, 3,481,451,483,321, 72,463, 96, 71,463,
197 328,478,524,297, 81,221,418,455,458,475, 97,466,509,499,179, 43,470,256,507,242,
198 166,319,482,474,478,480,257,159,503,229,237,145,279,268,472,229,242,240,268, 70,
199 46,332,328,460,256,457, 97,209,472, 42,479, 86,219,418,461, 58,164,168,513,503,
200 461,498,229, 42, 41,229,477,246,491,413,156,496,175,488,510,221,295,356,239,166,
201 478,296,442,192,484,181,329,487, 61,166, 98,143,439,441,143,354,363,143,420,143,
202 478,167,147,245,143, 56,451,484,352,209,337),
203 TPYIndex_191_list(484,484,471,442,441,441,442,244,166,477,243,243,471,441,435,337,242
204 413,413,517, 71,340,458,388,295,268,173,507,470,477,347,257,364,444,111, 18,464,
205 221,180,172, 81,464,317,422,351,517,137,420,181,473,115,242,350,135,469, 7,236,
206 510,117,161, 0,507, 6, 69,319,265,172,151,247, 59, 48,478,160, 94,502,117,140,
207 474, 97,141, 40,473,462,398, 24,159, 68,188, 71,148, 4,464,459, 12,335, 15,477,
208 478,147,467,515,347,112,109,353,481,187,458, 81,222,185,347,503,234,162, 26,181,
209 475, 81,471,352,415,506,449,184,245,506,206,389, 89,421, 28,440, 17,459, 97,477,
210 507,516,339,184,291,194,215,291,175,123,483,471,136,228,109,471,215, 4,393,280,
211 441, 47,164, 18,231,455,513, 13,483,456,178,368,475,128,520,483,165, 98,474,117,
212 172,257,389,445,478,112,508,178,179,155,123),
213 TPYIndex_191_list( 57,459,333,225,464,165, 92,449,468,457,172,211,479,481,189,413,395
214 441,353,508,229,322, 12,492, 94,505,456,506,470,505, 3,133,472,191,452,462,237,
215 145,222,389,322, 17, 46,242,242,313,341,257,268,513,403,241, 21, 33,507,501,191,
216 83, 46,517, 0,172,143,342,347, 81, 65,472,418,497,341,451,515,345,388,388,110,
217 337,443,442,108,353, 96,525, 81,394,166, 97,421, 79,456,111,165,421, 68,475,510,
218 175,483,342,345,198,477,328, 83,176,475,469,421,221,184,163, 71,358,341,470,459,
219 457, 3,471, 72,368,179,247,213,242,472,421,451,166,240,240,369,229,235, 42,470,
220 472,225, 7,449,376,514,477,250,510,514,161,215,161,467,215,398,252, 96,398,477,
221 479,176,318,499, 20,415,354,236, 67,468,462,280,458,484,449,507,348,310,135,339,
222 259,259, 46,494,186,124,423,420,472, 18,169),
223 TPYIndex_191_list(487,462, 7,100,431,319,185,462, 83,473,164,189,498, 16,165,110, 84
224 453,420,456, 6,176,231, 97,487,176,395,111,168, 18,243, 97,435,341,182,302, 40,
225 459,108,172,159, 70,482,180,178,452,508,314,199,508,487,328, 48,485,514,472,278,
226 463,111,112, 0,484, 91, 25,517,502,291,484,440,468,507, 98,268, 18,393, 98,151,
227 467,107,506,265, 11,117,236,518,357,459,473,251,518,184,361, 89,172,121,460,168,
228 185,135,175,175,292,507,505,459,155,140,470,210,472,266,234,320,471,482,472,459,
```

```
229      431,447,352,411,159,459,390,394,462,252,117,456,194,220, 63,435,464,278,483,334,
230      415,507,147,514,333,443,459,483,472,456,457,472,483,408,229,184,515,339,459,517,
231      89,242, 98, 98,247,262, 61,335,184, 28,236,461,399,339,166,117,455,455,421,110,
232      110,432,291,352,180,180,341, 83,464,161,449)
233  );
234 BEGIN
235  IF (p_Index>0) AND (p_Index<192) THEN
236      RETURN v_list01(p_Index1)(p_Index);
237  ELSE
238      RETURN 0;
239  END IF;
240 end get_py_index_01;
241 /
242
243 CREATE OR REPLACE FUNCTION get_py_index_02(p_Index1 NUMBER, p_Index NUMBER)
244 RETURN NUMBER IS
245  v_list02 TPYIndex_list := TPYIndex_list(
246      TPYIndex_191_list(220,478,509,280,117,245, 4,215,478,471,184,229, 83,459,162,162,47,
247      173,483,483,451,431,365,257, 70,368,348,166,455,341, 57,263,117,178, 92,477,508,
248      165,262,472,479,468,178,451,506,350,507,462,445,231,254,357,408,329,451,447, 63,
249      161,346, 13, 0,467,483,141,521,474,484,364,366,237,257,317,487,249,214,393,505,
250      484,417,364,266,479,413,294,423,318,222,280, 13,328,477,483,468,484,477,192,481,
251      291,524,179,513,494,278,223,503,161,161, 6,368,249,331,136,456,345,445,500,263,
252      459,459,268,233,231,162,141, 79,507,467,477,162,457,214,474,472, 42,177,257,117,
253      108,472,477,152,177,117,395,415,342,231,468,463,294, 89,477, 30, 3,293,297,249,
254      433, 50,179, 59,483,332,364,366,291,472,420,479,341,485,262, 18,393,464,291, 91,
255      237,484,221,472,236,177,358,221,459,479,403),
256      TPYIndex_191_list(462,352,261,229,243,472,510,221,186,518,463,408,420,482,513,470,264
257      477,518,229,469, 25,277,295,479,243,364,349,441,365,474,477,180,516,510,159,395,
258      477,433,457, 47,354,133,461,498,395,393,165,261,208, 28,491,484,350,151,505,175,
259      297, 24,164, 0,347,395,297,179,297,507,483, 13,212,297,247,347,161,507,297,393,
260      451,462,212,166,187,477,477, 13,347,240, 13,112,247, 94,334,513,334,194,473,513,
261      470,510, 94, 72,178,261,261,399,389,268,233,459,459,215,482,294,318,450,450,450,
262      474, 97,214,508,122,136,512,122,122,457, 18,178,432, 84,395,505,462,291,457,446,
263      251,241,333,462,110,462,247, 35,462,184,186,233,186,510,462,334,447,459,229,472,
264      72,166,240,361,456,147,393, 51,476,485, 11,474, 5,456,178,172,111,449,341,339,
265      178,526,526,473,184,123,469,334,229,433,522),
266      TPYIndex_191_list(117,445,328, 6,213,351,334,433,236, 48,333, 37, 12,439,469, 20,151
267      295, 85,242,100,106,121,352,477,271,395, 4,451,164,261,229,172,439,451,482,136,
268      234,474,177, 98,475, 26,354,112,280,229,482,459,364, 72,393, 47,441,128,124,458,
269      478,483,279, 0,191,472,353, 49,418,235,162,184,220,265,215,215,522,136,471,123,
270      245,245,236, 97,506,478, 89,147,506,451,328,178,522,209, 89,478,518,494,165,483,
271      473,112,350,473,431,477,507,395, 98,510,500,247,472,257,147,172,164,435,456,483,
272      520,221,194,472,472,451,520, 40,417,194,347,431,441, 94,457,453, 31,422,479,178,
273      189,237,456,345, 17, 83,341,481,295, 67,395,371,411,520,176,233,192, 42, 85, 34,
274      87,441,241,500,500, 6, 32,351,342,524,524, 72, 72,457,483,328,240,460,506, 25,
275      347,177,472,223,500,233,233,347, 97,525,345),
276      TPYIndex_191_list(186,474,177,474,186,500,477,469,280,475,475,477,295,472,172,462,194
277      524,451,364, 72,236,178,483,485,478,366,178,234,457,240,240,479,457,184, 42,479,
278      451,472,280,352, 44, 64,243, 83, 83,295,472,472,472,280,472,211,165,464, 44,234,
279      200,337,337, 0,350,507,502,477,179,416,352,324,334,488, 87,295,111,314,507,161,
280      70, 69,447,117,268,477,477,333,340,185,366,401,404,345,505,395,354, 69,141,333,
281      501,376,449, 69,386,339, 91,160,506,467,451,477, 12,333, 85,133,317,423,261,173,
282      427,166,508,393, 21,143,494,271, 12,180, 42,507,456, 18, 18,501,261,345, 42,111,
283      259, 12, 72,264, 51,178,459,221,175, 24,122,172,435,494,140,256,347,444,471,463,
284      178,514,471, 59,439,477,507,433,507,461,441,141,209,259,482, 26, 24, 47,220,172,
285      411,399,348,483,263,412,494,460,110,182, 98),
286      TPYIndex_191_list(451,237,458,412,507, 26,348,182,182,241,478,457,242,477, 51,441,408
287      456,110,213,207,211, 18,379,235,233,247,172,479,459,435,481,229,435,472, 81,334,
288      166,277,166,111,351,472,492,477,106,376,106,395, 84,161,456,443,176, 7,393,501,
289      423,117, 81, 0, 44,505,477,352,390,484,180, 84,501,176,342,322, 18,391,421,175,
290      125,107, 18,208,175, 22,461,421,143,342,159,291,143,449,186,172,242,166,166,477,
291      477,477,485,485,452,472,483, 48, 84,481,330, 48,517,477,172,508,450, 81,236,117,
292      450,457,450,506,507,180, 61,507, 61,446,172,507,520,509,220,462,178,175,431,458,
293      329,117,451,318,457,506,330,431, 73,507, 22,508, 45,474,166,257,240,460, 13,351,
294      224,361,435,121,361,147,477,420,457,108,479,452,452,456,172,457,178,449, 61,483,
295      395, 65,420,516,347,167,465,450,459,192,184),
296      TPYIndex_191_list(477, 13,265,320,208, 11,298,500,161,522,482, 81,443,482,117,457, 18
297      24,165,469,328,399,457,421,481,268,205,395,457,223,155,213,270,507,462,474, 85,
298      149,451,467,461,408,210,350,166, 48,477,465,138,235, 48,389,513,485,322, 73,166,
299      461,252,481, 0,484,328,485,483,483,194,503,235,177,346,431, 26,341,457,258,477,
300      155, 47,456,229,232, 61,477,229,280, 98,456, 61, 73, 43,258,229,139,139,339,206,
301      432,245,457,191,142,291, 96,143,500,484,179,172,235,483,151,352,421,431,295, 58,
302      258,463,456,417,520,175,481, 73,280,487,434, 57,349, 33, 20,167,520,431, 15,468,
303      451,125,451, 18,468,164,262,481,339,422,478,463,254,340,194, 3,346,472,368,520,
304      408,479,353,159,487,413,339,474,411,165,172,136,184, 55,291,462,189,506,481, 32,
```

```
305      470,393, 25,457,462,167,481,473,229,378,423),
306      TPYIndex_191_list(478,467,420,487,266,133, 61,330,271,143, 48, 30, 30, 30, 65,265,501
307      139,353,493,182,231,313,411,347,478,247,389,442,251,459,391,348, 81,507,247,185,
308      339,339,483,333,233,411,482, 49,507,439, 47,339,351,322, 15,349,177, 48,231,333,
309      214,166,506, 0,478,478,457,457, 70,421, 97,444,413,186, 33,461,108,111,223,223,
310      459,265,233,456, 30,186, 63,459,421,394,328,477,459,299, 70,421,180,411,177,451,
311      468,347,347,184,378,198,479,477,235,379,187,163, 3,475,216,458, 48,483,478, 69,
312      259,291,259, 94,339,268,459,258, 50,507,306, 51,473, 25,507,213,213,482,117,237,
313      264, 47,166, 42,221,163,468,358, 42,172,184,164,391,231,278,268,422,186,514,514,
314      485,125,175, 89, 85, 28,173,507,214,500,342,125,175,483,482,457,500,457,457,351,
315      161,161, 98,477,431,254, 83,389,477,477,472),
316      TPYIndex_191_list(350,229,108,366,490,501,485,483,456,147,393,498,477,339,456, 78,361
317      483, 6,503,507,507, 78,472,450, 20,184,452,161,485,347,393,506,487,449,369,335,
318      335, 7,298,494,487, 24,507,278,337,474,505,498,473,340,291,475, 48,328,173,257,
319      351, 51,471, 0,500,319,276,341,445, 8,507,184,216,340,341,154,296,133,525,477,
320      462,379,166, 8,507,216, 97, 97,299,505,151,177, 89,366,234,498,242,391,186,234,
321      184,471,459,483,472, 25,128,431, 47,417,341,257,299,184,322,175,472,415,462,498,
322      112,209,350,168,441,335,494,412,483,517,449,507,525,512,499,242,412,472, 12,451,
323      449,347,391,265,258,117, 72,455,352,485,520,432,441, 16,455,526,458,339, 47,378,
324      245,348,123, 81,167,339,399,449,236,471,506,232,137,477,467,472,506, 28, 24,431,
325      521,198,398,178,266,128,259,378,322,306,175),
326      TPYIndex_191_list(506,482,341,472,278,468,328,451,374,295,395,520,505,470,481, 20,473
327      467,340,172,431,219,219, 46,182,441,167,127, 89,461,462,341,498, 15,474,451, 77,
328      456,520,127,135,347,364,353,521,416,416,364,322,194,474, 72,507,306,462,350,459,
329      179,264,477, 0, 94,388,418,498,334,229,423,209,507,447,458,452,342,432,505, 98,
330      306,352,498,456,503,192,364,387,416,417,233, 49, 55,143,322,507,339,412,231, 47,
331      48,139,242,241,520,457,161,511,342,422,162,507,342,141,479,345,507,295,251, 42,
332      313, 51,413,513,177,388,341,330,176,474,135,341,172,331,223, 96,459,371,141,496,
333      477,470, 47,461,159,140,418,292,235,506,451,193,172, 32,463,421,107, 45,186,461,
334      16,268,517,451,337,347, 96,162,177,418,474,511,231,481,279,242,517,499,337, 58,
335      457, 71,379,348,178,211,388,462,498, 6,184),
336      TPYIndex_191_list(475, 98,259,261,172,420, 72,221,184,475,366,475,475,291,455,178, 23
337      507,422,268,175,462,234,421, 8,412,242,485,359,507,473,225,372,399, 64,292,459,
338      320,229,220,164,479,246,240,341,341,341,221,459,479,257,388,479, 64,462,503,246,
339      257,268, 48, 0,523,243,421,387, 83,447,422,177,221,246,141,141,339,470,193,477,
340      147, 11,334, 83,208,265,456,151, 33,398,143,467,177, 46,505, 97,483, 8,467, 97,
341      295, 83,353,477,194,472,339,440,461, 97,473,458,265,510, 3, 81,505,399,233,351,
342      465,477,177,388,177,517,477,231, 18,420,461,461,469,339,339,186,499,446, 11,483,
343      221,451,394,173,173,483,177,440, 90,507,342,351,500,517,517,517,347,235,517, 51,
344      92,510,178,148,320,482,272,339,328,237,117,109,180,502,477,390,175,105,507,108,
345      330,108,500,211,415,483,172,172,168,462,433)
346  );
347 BEGIN
348   IF (p_Index>0) AND (p_Index<192) THEN
349     RETURN v_list02(p_Index1)(p_Index);
350   ELSE
351     RETURN 0;
352   END IF;
353 end get_py_index_02;
354 /
355
356 CREATE OR REPLACE FUNCTION get_py_index_03(p_Index1 NUMBER, p_Index NUMBER)
357 RETURN NUMBER IS
358   v_list03 TPYIndex_list := TPYIndex_list(
359     TPYIndex_191_list(479, 81,467, 42,473,395,265,265,516, 57,456, 15, 11,178,394,161,10!
360     347,161,472,494,109,393,184,473,109,468,334,505,236,149,268, 20,467,167,520,458,
361     110,477,452, 89, 3, 24, 5,240,213,433,395,165,468,214,467,177,179,507,439,159,
362     121,460,147, 0,187,459,215,509,457,394,503,503,147,149,449,432,517,524,509,388,
363     291,457,339,506,477,472,449,235, 43,450,461,110,468,477,487,166,467,265,475,479,
364     399,451,348,254,278,221,473, 57,474,417,337,177,189,149,453, 43,339,149,472,229,
365     172,258,491,462,149,268, 61,291,501,166,147,468, 54,233,421,180,331,235,457,477,
366     178,165, 69,475,475,229,421,439,461,110,393,502,149,477,460,464,388,177, 13,180,
367     472, 3,475,366,259,229, 46,213, 85,446,474,168,247,364,240,246,243,387,422,472,
368     510,485,477,161,399, 32,394,497,341,467,216),
369     TPYIndex_191_list(478,346,111,328,111,236,209,446,307,433,222,524,266,450,444,339,479
370     222,223,240,332,399,429,361, 7, 97,433,229,350,182, 18,505, 59,366,341,483,456,
371     470,108,518,361,503, 97,252, 48,477,125,133,507,176,388,449,182,252,507,484,110,
372     89,459, 57, 0,399,162,463,298, 50,411,485,179,172,254,328, 5,111,477,117,278,
373     161,475,510,463,474, 98,502,487,524,394, 97,242,411,278,505,420,457,138,117,268,
374     477,475,475,395,295, 18,477,291,219,151,317,108,508, 69, 59,479,117,399,390,411,
375     393,357,481,507,522, 70,136,337, 6,117,117,526, 22,498,408,510,320,395,138, 40,
376     474,182,237,257,229,364,493,373,481,470,339,505,477,460,505,229,379,191, 24,361,
377     8,361, 24,518, 50,477, 59,525,524,106,106,483,107,133,500,229,478,507,395,117,
378     366,477,209,349,377,469, 97, 56,483,491,446),
379     TPYIndex_191_list(479,178,237,500,470,372,505, 15,479,216,180,334, 16,369,457,222,237
380     187,147,478,350,482,240,322,514, 81,469,441,493,482, 18, 81,147,507,361, 15,459,
```

```
381 164,449,306,173,433,172,461,247,212, 34,111,411,408, 90,347,479,184,215,517, 42,
382 451,180,229, 0, 24,458,115,423,507,220,231,517,229,339, 24,245,411,341,339, 28,
383 42,503,110,320,335,167, 47,493,234,483,483,136,142, 89,123,450, 67,108, 47,500,
384 339,484,472,483,352,477,393,457,517,413,220,521,521,111, 46,348,295,449,242,149,
385 346,509,184,184, 47,526,342,471,328,517,518, 23,322, 87, 51, 43,258,162,175,141,
386 457, 72,141, 83,507,352,274,117,128,322,388,477,393, 97,117,451,451,173,520,175,
387 477,457,472,472,500,483,151,455,329, 18,474,210,467,371,473,219,472, 16,166,214,
388 178,214,408,112,445,507,271,254,209,161,435),
389 TPYIndex_191_list(483,482,411,484,473,505,329,475,340,475,405,483,451,257,431,172,178
390 352,460,395,421,487,393, 51,328,173,477,505,117,306,261,136,179,418,474,462,484,
391 518,266,413,173,474,178,165,147,341,249,484,364,395,507,452,435,364,422,499,408,
392 394,194,457, 0,136,339,193,416,317,423,125, 57,505,300,172,178,342,459,257,467,
393 123,517,445,345,473, 83,173,507, 72,240,377,457,172,231,166,481,341,143,121,121,
394 442,162,393,524,322,482,176,161,164,141,477,477,124,192,141,141,449,507,514,487,
395 222, 46,520,229,466,348,403,439,139,494,413,225,242,232,261,247,177,413,194, 21,
396 242,233,503,498,399,251,294,473,433,322,510,386,352,175, 61,172,472,469,507,470,
397 507,524, 61,337,399,162,214,505,388,457, 57, 83,110,268,456,359,235,237,345,459,
398 370,108,500,223,487,405,443, 47,422,259,461),
399 TPYIndex_191_list(186,463,166,172,306,445,297,369,439,497,111,349,472,155,347,136,237
400 394,518,376,172, 90,180,175, 51, 68,399,176,235,280,478,166,388,524,468, 47,122,
401 184,524,477,337,112,166, 71,172,415,333, 47, 51,511,166,172,178,173,499,175,342,
402 72,477, 21, 0,411,391,229,478,423,420,262,339,442, 24,168,172,341,291,297,477,
403 124,191,478,368,348,472,339,261,502,141, 57,172,214,334, 79, 51,125,262,482,507,
404 165,341,225,234,372,242,229, 64,247,264,166,313,247,507,124, 91,484,485,110,517,
405 412,231,176, 51,348,510,247,472,229,510,347,178, 98,413,163,295,483,240,220,177,
406 459,141,184,466,236,479,388,478,482,479,460,299, 25,500,231,184,403,391,524, 61,
407 352,351, 31,183,483,246,229,523,243,422,186,472,221,221,510,246,229, 7,279,483,
408 236,140,477,459,467, 44,457,339,194,478,186),
409 TPYIndex_191_list(457,467,458,214,222,463,412,462,467, 53,478,341,463,341, 54,137,478
410 473,421,354,313,161,461,164,467,321,477,461,467,446,231, 51,477, 98,483, 58,164,
411 26, 26,184,341,507,379, 48,379,508,417,415,229,494,483,229,214, 98,503,452,268,
412 474,394,467, 0,186,340,350,413,348,477,475,475, 30,258, 85,505,487,452, 50,431,
413 179,389,478, 84,182,214, 64, 70, 91,176,231, 23, 91,175,175,510,394,477,462,353,
414 345,474,470,166,353,339,351,166, 92,477,461,139,257, 3,178,328, 42,446,446,328,
415 234,173,374,271,445,470,106,364,459,184,350,306,446,320,184, 97, 18,376,254,415,
416 399,445,194,418,376,399,271,254,439,364,500,378,500,259,242, 85,186,339,473,282,
417 23,393,457,457,348,471, 89,473,487,506, 24, 71,404,224,291,108,350,314,494,262,
418 84,517, 54,449,108, 69,445,252,482,332,341),
419 TPYIndex_191_list(483,483,441,182,507,507,341,180,180,444,187,159,352, 20,147,508,318
420 467,467,487,472, 70,482,161,168,307,268,456, 49,318, 18,507,317,518,488,237,494,
421 112,257,488,445,505,505,477,107,432,408,213,479,184,477,173,508,166, 16,494,510,
422 482,136,161, 0,333,518,507,413, 47,408,184,469,394,469,117,172,139, 70,478,509,
423 475,166,490, 47,451,160,175,408,106,464,117,518,507,478,456,193,446,472,431,270,
424 225,477,261,352,334,461,477,413,213,346,184,333,465,507,165,266,456,351,477,180,
425 395,323, 42,179,234,350,451,147,252,482, 25, 90,159,477,506,221,147,229,128,231,
426 57,159,477,439,223,458, 49,181,415, 47,320,459,393,215,333,147,348,361,441,461,
427 435, 98,487,229,404,408,225,404, 91,487,155,464,423, 58,501,279,484,445, 89,455,
428 184,391,232,167,418,346, 73,185,161,143,472),
429 TPYIndex_191_list(509,322,149, 43,341,109, 48,242,184,229,503,333,432,483,291,242,261
430 351,483,393,161,161,484,220,348,341,507,478,334, 16,484,452,371,110,484,194,339,
431 391,379,339,328,457,484,365,164,175,302,456,435,112,455,431,451,368, 33,151,472,
432 159,261,254, 0,479,472,348,394,257,490,167,277,141, 48, 98,231,339,339,257,432,
433 62,451, 30,265,334,467,172,175,112,477,478,395,462,506,421,483, 18,265,395,441,
434 394,481,184,439,442,350,350,473,240,168,484,278,317,482,352,514,232, 42,472,516,
435 151,518,258,479,219,112,241,451,458,479,334,179,472,417,484,459,474,259,517, 47,
436 420,418,447,208,378,498,395,245,249,451,490,456,452,342,494,395, 3,487,478,413,
437 417,395, 3,317,467,453, 31,264,125,469,165,462, 81,507,479,178,125,415,177,166,
438 478,494,403, 57,461,483,466,161, 18, 21,507),
439 TPYIndex_191_list(176,208,393,389,261, 6,242,467,482, 42,108,481,142,258,348,483,172
440 172,242,240,179,143,411,507,121,342,177, 61, 57,513,313,427,475,457,261,422,422,
441 421,231,447,420,122,322,518,192,322,501,514,467,216,341,472,403,461, 65,431,176,
442 520,479,159, 0,463,399,164,520,215,467,507,331,399,345,334,473,166,178,456,314,
443 172,451,461,341,471,457,416, 96,265,370,413,505,520,477,507,449,421,478,462,475,
444 498,376,152, 18, 42,399,337,235,451,379,379, 47,181,162,280,223, 66,159,147,487,
445 237,159,117,149,151,459,175,388,457,483,242,297,483,235,394, 71,164,494,462,483,
446 395,469,236,449,518,481,211, 30,231, 83,475,468,505,251, 70,477,415,328,184,418,
447 347,517,299,455,347,321,379,386,451, 51,418,411,435,379,510,231,291,457,399,261,
448 297,479,479,259,179,339,339,524,455,423,478),
449 TPYIndex_191_list(478, 94, 59,168,348,221,470,194,451, 23,136,341,479, 23,216,110, 31
450 334,491,242,229,482,473,242,408,507,479, 91,450,166,462,317,393, 21, 42,268,237,
451 175,379, 47,136, 23,168,459,242,347,364,229,180,461,479,415,451,448,469,510,403,
452 220, 94,108, 0,161,220,399,236,479,291,172,231,525,479,235,477,175, 42, 69,358,
453 175,221,108,403,484,517,112,391,225,221, 61,351,481,341,107,186,472,479,459,491,
454 243,472,229,261,388,421, 71,177, 42,479,149,510,221,221,279,449,243,470,459,472,
455 122,472,483,140,461,461,166,159,513,498,462, 48,490,339,508,111,298,452,337,477,
456 328,189,317,472,318,271,233,140,463,140,140, 20, 68,458,506,510,194,502,117, 7,
```

---

Page 7 of 24

```
533      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
534      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
535      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
536      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
537      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
538      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
539      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
540      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
541      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
542      TPYIndex_191_list( 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
543      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
544      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
545      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
546      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0,
547      0, 98, 0, 98, 0, 171, 0, 0, 248, 275, 0, 309, 0, 0, 0, 0, 0, 0, 0, 0, 0,
548      309, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 98, 0, 98, 0, 171, 0, 0,
549      248, 275, 0, 309, 0, 0, 0, 0, 0, 0, 0, 0, 309, 0, 0, 0, 0, 0, 0, 0,
550      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
551      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
552      TPYIndex_191_list( 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
553      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
554      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
555      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
556      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
557      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
558      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
559      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
560      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
561      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
562      TPYIndex_191_list( 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
563      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
564      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
565      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
566      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
567      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
568      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
569      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
570      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
571      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
572      );
573 BEGIN
574 IF (p_Index>0) AND (p_Index<192) THEN
575     RETURN v_list04(p_Index1)(p_Index);
576 ELSE
577     RETURN 0;
578 END IF;
579 end get_py_index_04;
580 /
581
582 CREATE OR REPLACE FUNCTION get_py_index_05(p_Index1 NUMBER, p_Index NUMBER)
583 RETURN NUMBER IS
584     v_list05 TPYIndex_list := TPYIndex_list(
585         TPYIndex_191_list( 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
586         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
587         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
588         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
589         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
590         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
591         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
592         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
593         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
594         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
595         TPYIndex_191_list(209,459,468,268,502,178,470,388,418,439,223,517,457,458, 15,507,472
596         315,110,461,328,339, 21,478,220,175,342,215,472,520,507,506,471,234, 38,520,118,
597         112,455,484,388,442,471,462,173,329,482,474,416,334,266,412,249,484, 69,483,395,
598         149,342,477, 0,505, 31,149,251,176,271, 42, 6,124, 65,111, 18, 18,165,337,235,
599         483,514,474,457,461,398, 96,177,125,468, 91,166,211,459,459,297, 20, 0, 0, 0,
600         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
601         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
602         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
603         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
604         0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
605         TPYIndex_191_list(168,366,259,234,482,180,398,242,418,459,261,358,280,246,459,339,186
606         413,350,119,224, 7,159, 81, 54,122,483,339,483, 43,159,456,117,178,471,258, 12,
607         485,186,487,186,478, 70,332,342,477,122,333,117,468, 62,135,173,390, 59,357,394,
608         393,477,522, 0,237, 18,505,179,177,175,229,140,459,509,472,466,473,467,413,347,
```



```
609 478,470, 13,460,458,141, 49,467,320,223, 71,479,452, 98,435,431,456, 0, 0, 0,
610 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
611 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
612 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
613 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
614 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
615 TPYIndex_191_list(456, 47,187,257, 15,435,459, 51,147,468,472,468,466,117,457,236,229
616 449, 83,332,500,379,265,483,220,265,450,483,432, 51,320, 47, 98, 43, 17,242,352,
617 84,320,342,517,347,107,179, 91,178,167,483,257, 57,468,431,464, 69,365,265,175,
618 451,368,164, 0,462, 54,175,513,473,231,352, 92,471,165,237,395,364,417,474,452,
619 456,505,179,479,249,423,237,229,222,432,342, 67,186,502, 23,441, 43, 0, 0, 0,
620 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
621 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
622 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
623 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
624 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
625 TPYIndex_191_list(215,513, 61,477,339,180,493,350, 6,231,258,478,162,451,456, 79,466
626 71,235,233,349,413,141,180,108,179,237,172,166,180, 3,493, 71,177,142,421,211,
627 164,379,415,432, 51,483,179,242,329,399,524,221,457,518,468,368,455,121,225, 91,
628 229,507,365, 0,229,491,468,431,141,415,219,240,242,229,221,479,457,460,451,139,
629 72,491,475, 25,319,507,229,397,460,344, 11,321,109, 70,113, 0,447, 0, 0, 0,
630 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
631 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
632 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
633 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
634 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
635 TPYIndex_191_list(161,477, 10,185, 43, 48,238, 71,259,515,333, 20,509,238, 59,479,339
636 313,513,235,456, 70,453,479,472,432,147, 43,348,393, 42, 42,369,413,393,242,112,
637 498,117,333, 87,516,259, 18,237,416,237,271,487,117,128,178,117,432,271,424,176,
638 447,117,278, 0,271,271,172,432,121, 18, 68,507,244,317,477,162,483,483,271,187,
639 477,237, 85,162, 71,515,176, 47, 43,444,225, 40,237, 85,235,176, 50, 0, 0, 0,
640 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
641 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
642 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
643 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
644 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
645 TPYIndex_191_list(328, 85, 85,346, 70,399,507,277, 18,123,509,458,467, 46,469,339,471
646 469,507,107,507,110,184,388,295,427,439,178,483,166,421, 48,257,180,461,441,252,
647 461,414,337, 97,398,477,322,501,139,249,235,172,432,475, 48,328,265, 94,194,471,
648 63,393,508, 0,507,483,112,473, 46,441,143,452,164,209,478,186,457,139,477, 55,
649 225,308, 83,501,393, 63,477,520,412,379, 84,241,247,347,117,406,345, 0, 0, 0,
650 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
651 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
652 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
653 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
654 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
655 TPYIndex_191_list(237,223,459,110,421,478,151,459,139,451,299,483,451,481,225,229,399
656 22,172, 48,473,178,506,256,229,168,220,172,468,479,478,481,421, 83,246,243,243,
657 25,446, 7,107,107,346,172,493,254,314, 59,236,268,172,322,124, 98,147, 18, 50,
658 341, 3,461, 0,149,165,149,494, 65,149,461,475,149,177, 3,464,165,246,330,151,
659 177,122,319,350,353,498,136,187,187,509,498,446,502, 91,339,479, 15, 1, 1, 3,
660 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
661 4, 5, 5, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7,
662 7, 7, 7, 7, 7, 7,314, 7, 7, 7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 11,
663 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 12, 12, 12, 12, 12, 12,
664 12, 12, 12, 12, 12, 12, 13, 13, 13, 13, 13),
665 TPYIndex_191_list(502,151,151, 25,449,483,108,117,350, 72,242,500,229,179,467,191,468
666 509, 71, 4,136,229,122,450,339,484,459,463,457,112,265,266,395,487,317,109,257,
667 459,395,479,506,474,393,168, 68,505,213,467,393,257,268,510,505,395, 85,291,518,
668 44,109,317, 0,240,439,507, 81,281,266,470,505,473,268,508,268,257,461,147,164,
669 47,512,185, 98,251,459,457,215,388,432,245,449,228,395,349,234,506, 13, 13, 13,
670 13, 13, 13, 13, 13, 13, 13, 13, 13, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
671 15, 15, 15, 15, 16, 16, 16, 16, 17, 17, 17, 17, 17, 17, 18, 18, 18, 18, 18, 18,
672 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 328, 18, 18, 18, 18, 20, 20,
673 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 21, 21, 21, 22, 22, 22, 22, 22, 23, 23,
674 23, 23, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24),
675 TPYIndex_191_list(229,220,524,185,328,167,242,494,509,483,167,249,458,464,166,142,490
676 160,468,432,467,107,455,141,261,453,208, 71,432,349,268,111,494,501,477, 90,208,
677 268,405, 61,247, 48,258,141,164,405,457,337,393,233, 45,459,475,469,456,451,175,
678 475, 3,166, 0,175,502,257, 50,378,297,470,474,485,259,262,332,262,225,213,468,
679 262,168,242,259,240,352,251,457,422,191,510,347,483,406,517,186,393, 24, 24, 25,
680 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25,
681 26, 26, 26, 26, 26, 26, 26, 26, 26, 27, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,
682 28, 30, 30, 30, 30, 30, 30, 30, 30, 31, 31, 31, 31, 31, 32, 32, 32, 32, 32, 33, 33,
683 33, 33, 33, 35, 35, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 41, 41, 41, 42,
684 42, 42, 42, 42, 42, 42, 42, 42, 42, 42, 43, 43)
```

```
685 );
686 BEGIN
687 IF (p_Index>0) AND (p_Index<192) THEN
688 RETURN v_list05(p_Index1)(p_Index);
689 ELSE
690 RETURN 0;
691 END IF;
692 end get_py_index_05;
693 /
694
695 CREATE OR REPLACE FUNCTION get_py_index_06(p_Index1 NUMBER, p_Index NUMBER)
696 RETURN NUMBER IS
697 v_list06 TPYIndex_list := TPYIndex_list(
698 TPYIndex_191_list(160,479,509,177,497,485, 7, 87,339,518,456,503,340,342, 70,186,221,
699 192,507,178,332, 98,503,415,447,179,268,522,483,246,445, 98,271,510,301,333,236,
700 337,224, 98,334,481,213,199,352,510,213, 98,340,242,451, 3,478,472,333,223,159,
701 348,451,345, 0, 36,348,353, 42,222,159,483,461,458,252,246,481, 45, 45,472,386,
702 215,136, 36,162,242, 46,303,411,517,199,472,515,206, 47,339,520,348, 43, 43, 43,
703 501, 43, 43, 43, 43, 43, 43, 43, 44, 44, 44, 44, 44, 44, 44, 44, 44, 45, 45, 45,
704 45, 45, 45, 46, 46, 46, 46, 46, 46, 46, 46, 46, 47, 47, 47, 47, 47, 47, 47,
705 47, 47, 47, 47, 47, 47, 47, 48, 48, 48, 395, 48, 48, 48, 48, 48, 48, 48, 48,
706 48, 48, 48, 48, 49, 49, 49, 49, 49, 49, 50, 50, 50, 50, 50, 50, 50, 50, 50,
707 50, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51),
708 TPYIndex_191_list(235,187,317,265,500,151,457,228,478,456,339,245,280,368,472, 87,445
709 406,505, 92,458, 71,431,280,432,339, 96,112,353,353,249,133,462, 98,237,431,422,
710 194,328,451,432,471,339,231,451,487,515,219,316,474,513, 42,339,345,322,237,242,
711 191, 55, 46, 0,478,225,330,339,510, 65,520, 58,245,172,388,223,497,175,457, 87,
712 83,317,488,345, 81,229,175,457,501,345,459,483,515,345,194,494,225, 51, 51, 51,
713 51, 51, 51, 53, 54, 54, 54, 54, 54, 54, 54, 55, 55,514, 55, 55, 55, 56, 56, 56,
714 56, 56, 57, 57, 57, 57, 57, 57, 57, 58, 44, 59, 59, 59, 59, 59, 59, 59, 59,
715 59, 59, 59, 61, 61, 61, 61, 61, 61, 62, 63, 63, 63, 63, 64, 64, 64, 65, 65, 65,
716 65, 65, 65, 65, 65, 66, 66, 66, 67, 67, 67, 67, 67, 67, 68, 68, 68, 68, 68, 68,
717 69, 69, 69, 69, 69, 69, 69, 69, 69, 69, 69),
718 TPYIndex_191_list(178, 51,475,353, 71,477,328,328,483,332,339,477,194,175,483,368,319
719 249,463,213,225,225,507,229,246,108,353,319,479,229,240,240,268,403,139,221, 27,
720 472,362,485,418,249,462,474,507,109, 94,508,446,477,395,482,507,433,117,261,414,
721 257, 41,247, 0,483,456,510,141,458,507,124,124,404,179,393,121,215, 81,423,136,
722 139,524,236,242, 72,507, 18, 51,166,482,478,518,168,505,484,456,459, 69, 70, 70,
723 70, 70, 70, 70, 70, 70, 70, 70, 70, 70, 70, 70, 71, 71, 71, 71, 71, 71, 72, 72,
724 72, 72, 72, 72, 72, 72, 72, 72, 72, 73, 73, 73, 79, 79, 79, 79, 79, 79, 79,
725 81, 81, 81, 81, 81, 81, 81, 81, 499, 81, 81, 81, 81, 81, 81, 81, 81, 81, 81, 83,
726 83, 83, 83, 83, 83, 83, 83, 83, 83, 83, 83, 83, 83, 83, 84, 84, 84, 84, 84,
727 84, 84, 84,433, 85, 85, 85, 85, 85, 85, 85),
728 TPYIndex_191_list(473,507,477,257,408, 81, 15,505,481,172,124,422,408,249,418,117,468
729 408,421, 70,141,415,229,299,459, 72,229,485,507,491,225,365,462,441,361,518,276,
730 507,459,292,350,111,254,487,507,180,507,483,209, 11,328,291,229,482,328, 25,236,
731 292,526,507, 0,184,168,439,507,216,151,478,518,507,361, 91,510,299,337,124,494,
732 445,215,122,180,431,441,471,245,242,136,526,516, 12,339,507,215,228, 87, 87, 87,
733 87, 87, 87, 87, 87, 87, 88, 89, 89, 89, 89, 89, 89, 89, 89, 89, 89, 90, 90, 90,
734 90, 90, 90, 90, 90, 91, 91, 91, 91, 91, 91, 91, 91, 91, 91, 91, 91, 91, 92,
735 92, 92, 92, 92, 92, 94, 94, 94, 94, 96, 96, 96, 96, 96, 96, 96, 96, 96, 97, 97,
736 97, 97, 97, 97, 97, 97, 97, 97, 97, 97, 98, 98, 98, 98, 98, 98, 98, 98, 98,
737 98, 98, 98,100,106,106,106,106,106,106,106,106),
738 TPYIndex_191_list(322,235,524,483,413,446,477,457, 20,172,117,328,306,178,508,520,467
739 518,483,467,507,193,136,364,415,364,172,192,388,261,507,172,242,413,172,479,452,
740 350,217,477,165,346,172,461,337,177,517,508,524,247,415,299,379,166,358,306,483,
741 332,518,443, 0,452, 47,168,213,247,319,379,517,229,491,471,483,393,180,474,223,
742 474, 13, 24,447,510,319, 84,456,447, 55,474,461, 47,208, 70,517,467,106,107,107,
743 107,107,107,107,107,107,108,108,108,108,108,108,108,108,108,108,108,108,108,108,
744 108,108,108,109,109,109,109,109,109,109,109,109,109,110,110,110,110,110,
745 110,110,110,110,110,110,111,111,111,111,111,111,111,111,111,111,111,111,111,
746 111,112,112,112,112,112,112,112,112,112,112,112,112,112,112,112,112,112,112,112,
747 117,117,117,117,117,117,117,117,117,117,117,117),
748 TPYIndex_191_list(413,139,517,455,447,475,349,474,474,433, 44,432, 84,241,233,457,456
749 212,212, 47, 65,233,493, 64,345,349, 91,493,240,346, 51,395,117,341, 51,159,339,
750 149,394,111,263,351,510,236,285, 24, 8,408,159,505, 84,477,399,180,351,333,229,
751 513, 35, 79, 0, 66,448,180,191,180,224,322, 48,252,510,449,177,414,347,471,515,
752 484,148,179,328,477, 89,388,458,510,276,136,346,265, 13,388,320,236,117,117,117,
753 117,117,117,117,117,117,117,117,117,117,117,117,117,117,117,117,117,117,117,
754 117,117,117,117,117,117,117,117,117,119,119,121,121,121,121,121,121,122,122,122,
755 122,122,122,122,122,122,122,123,123,123,123,123,123,123,123,123,123,124,124,124,
756 124,124,124,124,124,124,124,125,125,125,125,125,125,125,125,125,125,125,125,125,
757 125,125,125,125,126,127,127,128,128,128,128),
758 TPYIndex_191_list(301,117,108,122,108,395,254,461,349,265,246,141,351, 48,478,474, 18
759 366,172,148,508,220, 71, 33,117,441,229,222,184,139,459,147,481,458,507, 47,414,
760 510,526,435,173,124,122,213,487,309,461,337,220,521,315,328,125,420,138,483,175,
```

```
761 502,161,506, 0,498,509,242,235,354,117,498,136,341,187,515, 33,522, 25,468, 20,
762 416,459,333,464,161,477,485, 57,247,456, 89,461,172,178,464,257,108,128,128,128,
763 133,133,133,133,133,133,133,133,133,133,133,133,133,135,135,135,135,135,
764 135,135,135,135,136,136,136,136,136,136,136,136,136,136,136,136,136,136,
765 136,136,137,137,137,137,137,137,138,138,138,139,139,139,139,139,139,139,
766 139,139,140,140,140,141,141,141,141,141,141,141,141,141,141,141,141,141,
767 141,142,142,142,143,143,143,143,143,143,144),
768 TPYIndex_191_list( 92,112,510,159,346,350,263,341,136,395,487,151,422,485, 50,371,506
769 240,322, 91,517, 51,395,510,342,240,175, 26,166, 18,510, 61,472,491,523,328,330,
770 483,513,499,387,143,477,161, 42,208,333,493,172,247,172,292,417, 64, 84,417,224,
771 232,461, 25, 0,261,408,422,233, 70,117,175,265,214, 69,177,513,223,461,242,395,
772 491,339,315,339,328,122,184,242,242,472, 71,374,511,135,341,231,395,145,145,145,
773 145,145,145,145,147,147,147,147,147,147,147,147,147,147,147,147,147,147,147,
774 147,147,147, 16,148,148,149,149,149,149,149,149,149,149,149,151,151,151,151,151,
775 151,151,151,151,151,268,151,151,151,151,151,151,151,152,152,154,154,154,154,155,
776 155,155,155,155,159,159,159,159,159,159,159,159,159,159,160,160,160,160,160,160,
777 161,161,161,161,161,161,161,161,161,161,161,161,161,161),
778 TPYIndex_191_list(221,214,483,485,149,505,420,431,295,423,477,339,427,513,509,317,412
779 427,242,242,175,445,479,483,220,240,346,231,221,341,485,508,351,231, 20, 92,523,
780 229,395,246,479,485,517,483,108,393,503,393,307,151,291, 66,501,341,499,328, 11,
781 456,386,192, 0,365, 18,415,478,503,261,420,161,122,184,268,509,229,413,159,439,
782 379,235,514, 8,223,106,351,151,459,117,229,485,242,184,339, 8,501,161,161,161,
783 161,161,161,161,162,162,162,162,162,162,162,162,162,163,163,163,163,163,164,164,
784 164,145,164,164,164,164,164,164,164,164,164,165,165,165,165,165,165,165,165,
785 165,165,165,165,165,165,166,166,166,166,166,166,166,166,166,166,166,166,166,
786 166,166,166,166,166,166,166,167,167,167,167,167,167,168,168,168,168,168,168,
787 168,168,168,172,172,172,172,172,172,172),
788 TPYIndex_191_list(162,162,376,422, 20,262,520,175,229,462,117,306, 15,136,466,173,514
789 176,268,376,376,306,457,232,211, 25,164,399,172,459,442,295,229,526, 81,295,433,
790 221,408,182,133,506,182,482,172, 40,509,470,485,176,483,178,449,361,452,350,276,
791 518,440,298, 0,116,178,399,516,328,505,386,159,507,172,111,487,361, 70,179,109,
792 522,182,498, 7,117,507,339,509,159,498,457,117,477,393, 25,510,351,172,172,172,
793 172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,
794 172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,172,
795 172,172,173,173,173,173,173,173,173,173,173,173,173,173,173,173,173,173,175,
796 175,175,175,175,175,175,175,175,175,175,175,175,175,175,175,175,175,175,
797 175,175,175,191,175,175,175,175,175,175,175),
798 );
799 BEGIN
800 IF (p_Index>0) AND (p_Index<192) THEN
801 RETURN v_list06(p_Index1)(p_Index);
802 ELSE
803 RETURN 0;
804 END IF;
805 end get_py_index_06;
806 /
807
808 CREATE OR REPLACE FUNCTION get_py_index_07(p_Index1 NUMBER, p_Index NUMBER)
809 RETURN NUMBER IS
810 v_list07 TPYIndex_list := TPYIndex_list(
811 TPYIndex_191_list(236,510,390,122,473,117,445,505, 69, 51,395,508,468,522,181, 11,35:
812 213,180,361,148,477,178,510, 50,210,268,186,213,161, 59,164,128,423,462,209,461,
813 352,121,246,470,322,459,117,458,439,364,433,478,225,462,185,145, 85,439,408,176,
814 460,166,186, 0,175,468,507,452,505,247, 47,350,399, 12,439,461,449,459,128,466,
815 431,466,462,159,457,117,435,415, 94,215,117,180,161,507,472,181,112,175,175,175,
816 175,175,175,175,175,176,176,176,176,176,176,176,176,176,176,176,176,177,177,
817 177,177,177,177,177,177,177,177,177,177,177,177,177,177,177,177,177,177,177,
818 177,177,177,177,177,177,178,178,178,178,178,178,178,178,178,178,178,178,178,
819 178,178,178,178,178,178,178,178,178,178,178,178,178,178,178,178,178,178,178,
820 179,179,179,179,179,179,179,179,179,179,179),
821 TPYIndex_191_list(172,467,361,520,393, 97,234,247,232,423,352,390,339,516,339,449,506
822 423,449,123,450, 17,515, 28,143,522,245,237,477,500, 18, 58,236,262,339,346,432,
823 520,167,521,457,518,464,232,179,110,369,265,483,520,108,247,467,479,389,339,467,
824 460,175,194, 0,459,368,262,339, 92,508, 81,265,263,484,475, 13,408,350, 20,164,
825 128,520,262,451,117,451,467,135,263,462,231,520,329,487,478,431,137,179,179,180,
826 180,180,180,180,180,180,180,180,180,180,180,180,180,180,180,180,180,180,180,
827 180,180,180,180,181,181,182,182,182,182,182,182,182,182,182,182,182,182,182,182,
828 182,182,182,184,184,184,184,184,184,184,184,184,184,184,184,184,184,184,184,184,
829 184,184,184,184,184,184,184,185,185,185,185,185,185,185,185,186,186,186,186,186,
830 186,177,186,186,186,187,187,187,187,187,187),
831 TPYIndex_191_list(507,487, 47, 42, 69,458,484,520,467,479,451,128,385,479,179,477,515
832 317,509,175,417,352,403,487,458,415,457,364,423,117,487,505,124,366,161,497,427,
833 468,413,505,520,423,165, 28, 18,112, 63,229,417,478,457,520,225,513,341,251,507,
834 247,271,330, 0,231,468,520,172,461,415,247, 17,477,493,271,342,167,459,172,386,
835 466,357,468,415,345,497,526,507,388,376,235,483,108,359, 58,525,175,187,187,187,
836 187,187,188,188,188,125,189,189,189,189,189,191,191,191,191,191,191,192,192,192,
```

```
837 192,192,192,192,193,193,193,193,194,194,194,194,194,194,194,194,194,194,194,194,194,
838 194,194,194,198,198,198,198,199,199,206,206,206,206,208,208,208,208,209,209,209,
839 209,209,209,209,210,210,210,210,210,211,211,211,211,212,212,213,213,213,213,213,
840 213,213,213,214,214,214,214,214,214,214,214,214),
841 TPYIndex_191_list(359, 42,369,466,166,162,523,457,342,487, 68,479,166,457,379,175,176
842 462,517, 18,421,477,299,415,477,387,467,172, 23,341,221,337,470,339,322,474,268,
843 225,462,523,213,482,467,225,459, 42,177,242, 42,479,388,460,459,524,523,246,457,
844 221,225,231, 0,159,361,510,505, 85,457,479,423,487,459,415,462,116,116,339, 25,
845 333,460,502,123,479,139,525,421, 31,339,453,479,225,421,242,408,123,214,214,214,
846 215,215,215,215,216,216,216,216,219,219,219,219,219,219,219,219,220,220,220,221,221,
847 221,221,221,221,221,221,221,221,221,221,221,221,221,222,222,222,222,222,222,222,
848 223,223,223,223,223,223,223,223,223,224,224,225,225,225,225,225,225,225,225,225,
849 225,225,228,228,228,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,
850 229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,229,
851 TPYIndex_191_list(355,393,136,510,184,259,265,137,431,185,117,393,138,517,483, 4,107
852 328,107, 44,451, 18,172, 49,237,185,261,502,246,328,172,172,243,261, 68,473,482,
853 482,111, 7,473,136,482,492,257,477,510,477,364,354,342,164,477,477,473,342,459,
854 483,222,484, 0,108,388,111,388,231,300,342,159, 49,111,159, 48, 65,117,458,321,
855 219,334,242,507,483,457,462,457,194,166,166,461,386,159,176,509,386,229,229,229,
856 229,229,229,229,229,232,231,231,231,231,231,231,231,231,231,231,231,231,231,231,231,
857 232,232,232,232,232,232,232,232,232,232,233,233,233,233,233,233,233,233,233,233,
858 233,233,233,233,234,234,234,234,234,234,235,235,235,235,235,235,235,235,235,235,
859 235,236,236,236,236,236,236,236,236,236,236,236,236,236,236,236,236,236,236,236,
860 237,237,237,237,237,237,240,240,240,240,240,240,240,240,240,240,240,240,240,240,
861 TPYIndex_191_list( 48,468, 48,520,449,166,160,151,330,231,351, 6,235,321,345, 6,166
862 135,135,135, 85,368,277,513,435,328,477,351,173,184, 51,245,178,498,241,172,223,
863 168,482,163,477,347,487, 70,159,507,446,505, 45,506,482,517,433,307,471,503,381,
864 149,394,234, 0,180, 18, 81,143,452,467,333, 61, 87,446,435,184, 61,214,231,231,
865 453,214,231,231, 61,394,411,435,214,503,507, 70,297,346,291,435,435,240,240,240,
866 240,241,241,241,241,241,241,242,242,242,242,242,242,242,242,242,242,242,242,242,242,
867 242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,242,
868 247,243,243,243,243,243,243,244,244,244,245,245,245,245,245,245,245,245,245,245,245,
869 246,246,246,246,246,246,246,246,249,249,249,249,249,249,249,249,249,249,249,249,
870 250,250,250,251,251,251,251,251,251,251,251,251,251,251,251,251,251,251,251,251,
871 TPYIndex_191_list(240,502,408,413,502,477,350,198, 32,339, 81,164, 48,361,366,484, 40
872 318,482,357,452,339,328,457,457,198, 85,110, 7, 25,467,432,518,209,507,291,333,
873 518,509,459,271,351,194, 48,473,318,507,465,106,155,518,214,506,433, 65,257,462,
874 462,250,462, 0,296,452,452,466,199,482,155,319,388,435,257, 57,393,351,425,524,
875 172,482,463,445, 47,443, 90,280,328,136,229,501,415,178,232,404, 21,251,252,252,
876 252,252,252,252,254,254,254,254,254,254,254,254,254,254,254,254,254,254,254,254,
877 257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,257,
878 259,259,259,259,261,261,261,261,261,261,261,261,261,261,261,261,261,261,261,261,
879 262,262,262,262,262,262,262,263,263,263,263,263,263,263,263,263,263,263,263,263,
880 265,265,265,266,266,266,266,266,266,266,266,267,268),
881 TPYIndex_191_list(245,329,225,352,160, 70,282,277,361,393,515,184, 89,328,168,455,257
882 246,313, 81, 4,280,402,487,508,365,441,451,186,173, 92, 18, 43,472,447,398,422,
883 413,515,477,233,172,328,462,247,313, 43,242,168,318, 53,176,242,513,242,177,479,
884 247,469, 34, 0,439,291,233, 65,214,461,444,317,507,177,456, 65,476,460,415,111,
885 511, 70,211,299,186, 51,185,219,231,444,339, 65, 23,470,366,485,492,268,268,268,
886 268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,268,
887 271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,271,
888 277,277,277,278,278,278,279,280,280,280,280,280,281,282,282,282,284,285,291,291,291,
889 291,291,291,291,291,291,291,291,292,292,292,292,292,292,292,292,293,293,294,294,295,
890 295,295,295,295,295,295,296,297,297,297,297,297,297,297,297,297,297,297,297,297,
891 TPYIndex_191_list(459, 21,464,215,234,472,242,168,488,246,351,492,243,291,491,459,455
892 177,172,149,466,262,295,125,175,507,507,466,420,459, 40,457,483,464,184,182,463,
893 391,182,432,395,421,337,337,139,339,432,458, 72,108,314,420,108,108,242,236,458,
894 349,318,210, 0,117,493,112,229,483,222,446, 25,341,184,165,520, 20,271, 85, 90,
895 12, 40,477, 31,241, 69,469,474, 79, 71,342,242,477,172,175,455,339,297,297,298,
896 298,298,298,299,299,299,299,301,301,301,307,302,303,303,306,306,306,306,309,313,
897 313,313,313,313,313,314,314,314,314,314,314,314,315,315,315,315,315,315,315,317,317,
898 317,317,317,317,317,317,318,318,318,318,318,318,319,319,319,319,319,319,319,319,320,320,
899 320,320,320,320,320,320,320,321,321,322,322,322,322,322,322,322,322,322,322,322,322,
900 322,322,322,328,328,328,328,328,328,328,328,328,328,328,328,328,328,328,328,328,
901 TPYIndex_191_list(242,242, 42,403,175,333,472,472, 32,224,435,433,177,322,477, 40,262
902 518,166,415,507,444,451,339,452,361,117,510,162,186,172, 6,521,254,362,148,478,
903 482,477,346,328,431, 81,229,481, 15,477,510,291,314, 24,466,474,459,159,526, 89,
904 85,295,161, 0,257,394,137,261,451,117,518,507,172, 61,446,469,246,229,364,507,
905 46,483,466,518,234,456,172,141, 59,135,140,294,483,518,320,271,508,328,328,328,
906 328,328,328,328,328,328,329,329,329,329,329,330,330,330,330,331,331,332,332,332,332,
907 332,333,333,333,333,333,333,333,333,333,334,334,334,334,334,334,334,334,334,334,335,337,
908 337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,337,
909 339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,
910 339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,339,
911 );
912 BEGIN
```

```
913 IF (p_Index>0) AND (p_Index<192) THEN
914 RETURN v_list07(p_Index1)(p_Index);
915 ELSE
916 RETURN 0;
917 END IF;
918 end get_py_index_07;
919 /
920
921 CREATE OR REPLACE FUNCTION get_py_index_08(p_Index1 NUMBER, p_Index NUMBER)
922 RETURN NUMBER IS
923 v_list08 TPYIndex_list := TPYIndex_list(
924 TPYIndex_191_list(341,510,164,117,121,418, 54,180,106, 4,345, 48,333,341,223,399,51,
925 91,451,229, 90,117,361,478,337,487,415, 47,299,456, 22,457,128,510,268,514,526,
926 445,350,417, 46,322,457,464,479, 45,187,472, 67,147, 67,173,450,482,365,461,459,
927 452,178,278, 0,271,441,286,252, 59, 81,351, 89,521,219,242,451,361,215,337,518,
928 124,143,245, 50, 56,500,258,229, 13,347,185,347, 81,386,179,502,507,340,340,341,
929 341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,341,
930 341,342,342,342,342,342,342,342,342,345,345,345,345,345,345,345,345,345,345,345,
931 345,345,345,345,346,346,346,346,346,347,347,347,347,347,347,347,347,347,347,347,
932 348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,348,
933 350,350,350,351,351,351,351,351,351,351,351,351,351,351,351,351,351,351,351,351,
934 TPYIndex_191_list(128,210,347,472,450, 17,509,175,235,421,432, 72,161,151, 57, 43,164
935 472,477,433,339,449, 33,505,494,182, 18,477,259, 14,319, 87,350,194,460,449,483,
936 483,117,231,468,278, 33,455, 57,461,329,271, 4,479,216,216,176,262,526,526,522,
937 365,457,475, 0,472,351,175,117,247,175,321,159,159,160,472,441,518,348,261,165,
938 393,121,509,341,451, 25,451,172, 92,474,417,352,505,470,395,221,520,351,351,351,
939 351,351,352,352,352,352,352,352,352,352,352,352,352,352,352,352,352,352,352,352,
940 353,354,354,357,357,357,357,357,358,358,358,358,358,359,359,359,360,360,361,361,361,
941 361,361,361,361,361,361,361,361,362,362,363,364,364,364,364,364,364,364,364,364,
942 365,365,365,366,366,366,366,366,366,366,366,366,366,366,366,366,366,366,366,366,
943 371,371,372,372,372,374,374,374,374,374,376,376,376,376,376,376,376,376,376,376,
944 TPYIndex_191_list(474,484,257,487,399,513,139,357,469,446,451,482,412,478,395, 57,395
945 229,353,484,229,184,457, 51,467,441,237,455, 83,341,522,334, 67,484, 51,483,317,
946 337,276,457,111,487,371, 31,261,416,266,412,237,457,136,222,125, 67,422,246,468,
947 517,141,520, 0,142,526,433, 33,320,446,393,222,236,433,466,254,439,510, 4,231,
948 520,333,467,179,442,178,451,443, 32,483,477,518, 18,242, 26,501,225,376,376,377,
949 377,377,378,378,378,378,379,379,379,382,383,386,386,386, 40,386,386,386,386,386,
950 387,387,388,388,388,388,388,388,388,388,388,388,388,388,388,388,388,388,388,388,
951 389,389,389,389,389,389,390,390,390,390,390,390,390,390,390,390,390,390,391,391,391,
952 391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,391,
953 393,393,393,393,393,394,394,394,394,394,394,394,394,394,394,394,394,394,394,394,
954 TPYIndex_191_list(342,251,472,236,457,330,142,147, 81,242,391,389, 81,470, 25, 81,498
955 6,261,247,508,334,176,261, 61,294,166,187,478,388,478,143, 46,161,386,208,341,
956 249,492,494,229,451,172,470,394,259,313, 42, 83,369,225,483,345,510,210,175,250,
957 487, 13,482, 0,242,474, 98,431,110,186,110,366,111,214,405,471,467,117,422,456,
958 89,408,461,457,372,487,390,175,416,236,483,458,408,299,468,487,483,394,394,394,
959 394,394,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,
960 395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,
961 395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,395,
962 399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,
963 399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,399,
964 TPYIndex_191_list(461,149, 3,166,166,172,518,460,449,264,228,176, 30,393,379,231,194
965 422,500,416,472,108, 87,462,136,510,175,193,372,470,474, 8, 94,332,484,297,509,
966 455,330,339,493, 46,505,106,291,479, 61,461,339,107,175,483,214, 20,517,261,221,
967 179,349,346, 0,446,459,413,247,477,467,462,477,219,225,177, 81,507, 15,474,268,
968 164,319,412,421,443,349,345,451,237,166,313,193,487, 13,229,510,510,399,400,400,
969 401,401,401,401,402,402,403,403,403,404,404,404,404,404,405,405,405,405,406,406,406,
970 406,408,408,408,408,408,408,408,408,408,408,408,408,408,408,408,408,408,408,408,
971 411,411,411,411,411,412,412,412,412,413,413,413,413,413,413,413,413,413,413,413,
972 413,414,414,414,415,415,415,415,415,415,415,415,415,415,415,415,415,415,415,415,
973 417,417,417,417,417,417,418,418,418,418,418,418,418,418,418,418,418,418,418,418,
974 TPYIndex_191_list( 3,235,468,347,220,494,456,369,369,347,242,413,443,252,487,333,483
975 468,350,413,181,112, 25,460,477,459,483,184,459,459,478,342,479,240,440,162,485,
976 236,474,257,221,214,221,172,422,251,225,225,166,411,507,451,214,163,229,172,225,
977 163,246,172, 0,214,242,175,375,427,225,352,461,477,243,258, 22,507,461,184,161,
978 467, 67,117,467,242,161,149,177,184, 13,472,500,500,214, 23,457,399,418,418,418,
979 418,420,420,420,420,420,420,420,420,420,420,420,420,420,420,420,420,420,420,420,
980 421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,421,
981 422,423,423,423,423,423,423,423,423,423,423,423,423,423,423,423,423,423,423,423,
982 431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,431,
983 433,433,433,433,433,433,434,434,434,434,435,435,435,435,435,435,435,435,435,435,
984 TPYIndex_191_list( 84,350, 87,446,186,503,475,483,147,518,460,109, 98, 7, 48,341,452
985 339,439,507,484,353,482,347,339,508,271,450,111,111,148,117,357,319,291,425,333,
986 81,184,229,117,498,467,328,328,459, 84, 22, 24,500,434,136,479,246, 59,166,252,
987 117,234,477, 0,459,229,477,333,346,391,477,450,268,346,141,349,223,464,178,350,
988 173,485, 45, 15,147,468,505,337,459,232, 18,484,482,178, 70, 83,166,435,435,435,
```

---

Page 14 of 24

---

Page 15 of 24

```
1141 ELSE
1142 RETURN 0;
1143 END IF;
1144 end get_py_index_09;
1145 /
1146
1147 CREATE OR REPLACE FUNCTION get_py_index_10(p_Index1 NUMBER, p_Index NUMBER)
1148 RETURN NUMBER IS
1149 v_list10 TPYIndex_list := TPYIndex_list(
1150 TPYIndex_191_list(500,317,510,291,477,172, 97, 97,510,525,512,460, 85,329,507,178, 2,
1151 441, 63,199,295,461, 26,525,271,399,177,345,260,175,339,455,451,178,353,295,184,
1152 295,245,242,228,455,352,522,346,477, 81,520,322,506,483, 96, 57,481,507,498, 46,
1153 445,422,117, 0,522,360,498,443,342,500, 83,431,172,237,491, 18, 49,242,233,422,
1154 507,413,457,214,172,517,342,507,317,520,231,493,357,443,184,459,508, 81,420,173,
1155 507,510,211,346,470,487,229,479,124,457,117,328,421,472,185,472,478,501,334,388,
1156 521,236,112, 51,164,250,351,390,151,125,259,467,462,412,462,186,175,388, 71, 43,
1157 408, 20, 16,350, 16, 98,107,399,172,481,151,467,456,125,505,213,328,477,229,339,
1158 11,122,240, 83,242, 45, 81,445,291,271, 6,471, 85, 89,189,388,389,280,121,478,
1159 47,395,143,470,234,484,507, 4,477,328,292),
1160 TPYIndex_191_list( 25, 63,186,235,418,345,345,233, 96,139, 68, 18, 18,184,345, 96, 50
1161 292,507,485,507, 51, 92,451,240,235,459,451,221,358,462,295,418,351,353, 64,523,
1162 457,214,339,235, 70,111,431, 97,133,222,361,246, 3,172,184,206,446,472,257,192,
1163 351,247,223, 0,445,507,472,431, 72,479,483, 45,498,141,187,485,463, 69,468,108,
1164 361,388,213,399,444,339,420, 98,276,339,254,368,213,341,513,159,161,322,441,378,
1165 69,209, 85,478,228,160,125,484,251,481,232, 48,463,328,477, 32,177,277, 91,341,
1166 172,449,465,339,460,117,484,487,110,172,229, 98,184,328,507,369,459, 43, 61,347,
1167 456,341,339,388, 20,510,208,477,268,122,331,240, 7,271,184,357,348, 48,117,236,
1168 294,478,254,479,349,265,433,341,477,359, 18, 59,184,439,166,510,435,345,117,361,
1169 464,352,166,470,266,339,177, 49,176,246,479),
1170 TPYIndex_191_list(351,213, 81,236, 69, 6,505,108,213,473,322, 15,136,136,319,510,364
1171 507,474,194,503,507,395,333,106,133,184,461,140,471,189,352,509,518,507,391,232,
1172 483,390,482,484,478,503,449,117,348,509,477,236,503,500,232,518,166,450, 58,166,
1173 191,477,322, 0,341,142,292,333,139, 15,245,315,232,368,365,172,473,459, 54, 62,
1174 405,471,482,159,399,117,518,117,487, 16,500,483,487,423,136,505,458,470,127,179,
1175 250,416,159,509,191, 18,395,455,482, 98,257,482,229,441,459,117,415,482, 81,393,
1176 139,232,479, 57,180,339,457,411,179,277,339, 7,399, 43,434,483,164, 18,117,441,
1177 70, 65,472,522, 71,175,449,479,136,147,340,112,393,460,451, 42,189,339,214,457,
1178 98, 13,314,435,241,315,468,173,505,395,366,268,100, 15,453,149,172,229, 12,175,
1179 406,222,479,483,413,259, 90,457,231, 63,235),
1180 TPYIndex_191_list(484,242,461, 44,513,451,468,469,503,177,500, 26,233,111,108,235,125
1181 477,172,515,106,483,175,159,225,320,229,229,242,235, 69,509,232,487, 59,524, 20,
1182 219, 59,477, 20, 20,446, 11, 59, 20,329,299,299,505, 58,477,362,108,395,366, 42,
1183 122,483,477, 0,339,498,450,441,516,431,460,431, 98,508, 45,291,507,505,510,423,
1184 477,351,166, 89,482,277,477,178,234,470, 96,181,482,350, 81,180,477,351,208,467,
1185 233,166,470,186,369,524,172,259,108,339,159,462,159,451,477,453,412, 18,149,420,
1186 366,470,459,124,229,168,351,155,108,295,261,299,477,213,231, 68,477,457,492,319,
1187 482,233,119,122,431,258,442, 46,117,332,298,178,177,488,477,247,187,432,475, 3,
1188 276,172,143, 8,184,335,234,341,139, 85,498,471,347,483, 4,468, 24,214,484,399,
1189 100, 53,175,406,500,306,377,246,479,507,147),
1190 TPYIndex_191_list(472,456,231,417,166,136,220, 16, 67,510,322,482,509,179,483, 58,431
1191 422,415,472, 48,431,395,505,482,487, 98,168,418,451,278,474, 50,470,418,395,507,
1192 484,413,249,139,501,503, 27, 48,413, 96,395,241,507, 67,359,341,468,483,477, 98,
1193 233,395,250, 0,468,500,427,106, 20, 20,229,484,482,246,229,435,339,388,483,366,
1194 449,117,192, 23,463,393,484, 66,168, 12,184, 20,447,213,141,395,209,503,462,242,
1195 525, 64,122,164,328,464,517,168,523,279,477,443, 69,395, 26, 48,172,208, 72,224,
1196 498, 1,474,117,271,477,420,229, 98, 18, 15,143,347,478,488,188,119,137,236, 89,
1197 297, 97,280,482,408,213,172,393,166, 68,234,477,461, 18, 59,140,166,466,477,315,
1198 211, 97,172,264,261,498,299,127,270,250, 48,223,128,100,498,417,493,457,526,172,
1199 112,494,306,263,235,513,509,423,161, 65,386),
1200 TPYIndex_191_list(145,458,172,160,464,457,141,306,222,472, 47, 90,247,117,483,222,173
1201 351,461,339,348,509,521,333,225,291,482,335,460,184,481,345,477,257,371, 15,399,
1202 483,487,160,214,460,460,412,422,266,457,366, 51,518,521,475,456,460,487,345,481,
1203 254, 44,242, 0,233,513,161,345,449,345,467, 79, 18,470, 18,497,451,506,254,235,
1204 97,259,475,378,211,112,259,216,231,491, 42,482,339,472, 42,491,352,480, 70, 25,
1205 87,222,229,400, 58,498, 68,278,229,214,178,481,214,182,412,478, 48,178,241,209,
1206 455,166,347, 6,413, 91,194,295,151, 46,417,125, 1,100,149, 82, 3, 3,417,152,
1207 439, 48,320,225, 32,330,339,479, 17,412, 81,261,322,186,233,337, 53,177,309,347,
1208 242, 35, 79,149,179,469,477,374,328,366, 40,168,279,451,175,278,245,161,236,482,
1209 483,348,483,164,451,507,320,422, 50,494,143),
1210 TPYIndex_191_list(457,491,507,483,478,524,254,505, 90,505,484,117,432,340,334, 50,524
1211 337,524,145,515,242,221,472,423,500,421,515,459, 91,421,350, 57,487,107,194,412,
1212 50, 67,487,481, 5,498,176,330, 46,483,229,493,477,176,421,334,299,477,472,477,
1213 293,366,398, 0,472,236,261,261,293,463,177,395,261,472, 20,395,477,457,179,350,
1214 477,233, 72,502,236,334,350, 7,505,507, 7,243,117,277, 84,459,345,451,455,251,
1215 501,117,108,172,339,341,339,351,471,459, 6, 34,221, 7,161,194, 89,173,466, 69,
1216 135,254,265,477, 89,345,470,506,223,220,411,472,136,461,143,206,186,364,474,448,
```



```
1217      490,451,483, 67,241,518,257,394,411,172,501,235, 79, 23,477, 83, 48,318, 63,470,
1218      473,160,220,457, 43,165,474,507,177,351,376,108,350, 4,140,249,298,487,458,319,
1219      110,364,211,398,416, 18,185,229,483,459,478),
1220      TPYIndex_191_list(208, 54,518,108,483,456,147,123,339,252,363, 81,408,457,477, 41,477
1221      341,350,175,502,475,478,314,109,505,464, 90,485,508,117,328,369,463, 98,186, 96,
1222      135,478,341, 11,457,361, 44,298,111,487,477,347,328,143,159,478,187, 84,477,508,
1223      457,121,363, 0,168,420,192,484,242,288,452, 97,518,291,441,395,265,328,194,236,
1224      24,420,161, 25,328,483,408,526, 26,509,432,173,505,395,522,507,184,414,477,143,
1225      246,291,391, 63,261,161, 40,451,451,257,280,501,180,186,233,462,470,164, 54,168,
1226      416,478, 89,395,422,444,457,361,483, 48,477,460, 25,483,167, 40,412,268,466,179,
1227      376,513,279,328,456,141,319,466,460,445, 4,483, 18,128, 6,179, 42,462,235,479,
1228      399, 72, 66, 42,456,507,313, 49,456,189, 43, 55,411, 20,298,161, 51,322, 68,473,
1229      526,291,117, 44,477,477,439,472, 33,189,470),
1230      TPYIndex_191_list(434,477,477,468,502,319,151,379,394,522,522, 25,510, 48,488,334,439
1231      254,472,117,229,485,328,473, 11, 25,178,351,467,506,271,457,457, 81,173,271,421,
1232      393,477,408,213,188, 15,517,464,159,177, 48,199,246,333,395,270,194,478,187,509,
1233      49,460,439, 0,268,225,172,483,467,361,525,507,406,229,459,464,352,328,477,510,
1234      460,266,210,474,459,459,466,187, 40,223,172,328,366,261,477,478,140,194,487, 15,
1235      411,341,214,215,477,431,352,346,464,110, 43,450, 50,161, 65,487,214, 98,228,515,
1236      345, 18,413,341,481,180,345, 49, 51,235,259,432,166,402,472,451,159,265,192,418,
1237      247,215,182,222,483, 43,457,452,167, 98,351,353,151,432,353,191,514,317,342,376,
1238      339,408, 40,112,484,271,262, 96,261,136, 20,452,148,451,224,122,399,240,242,473,
1239      408, 97,236,254,246,468,317,445,159,265,180),
1240      TPYIndex_191_list( 4, 88,482,379,193,341,408,289, 84,147,485,507,199,350,461,503,482
1241      137,159,508,441,247,259,222,449,518,487, 15,413,483, 42,435, 25,147,173,159,185,
1242      112, 42,449,507,445,468,456,483,433,213,517,244,464,347,393,147,244,475,184,497,
1243      184,459,434, 0,252,337,229,317,485, 47,124,229,425, 24,510,505,441,237,524,184,
1244      43,484,175,123, 84,423, 43,245,210,236,328,242,229,342,335,185,265,164,451,234,
1245      173,505,478,166,510,172,467,166,423,470,176,237,161,470,366,413,456,220,451,517,
1246      185, 34, 12,457,257,164,510,339,457,411, 91,517,328,262,122,110, 61,393,139,242,
1247      402,462,472,262,350,412,165,467,321,175,468,455,257,472,347,194,391,252,479,337,
1248      229,366,418,167, 18,466,117,422,318,266,165,479,461,221, 32,161,246,164,231,510,
1249      477,242,468,122,399,408,388,390,439, 42,220)
1250    );
1251 BEGIN
1252   IF (p_Index>0) AND (p_Index<192) THEN
1253     RETURN v_list10(p_Index1)(p_Index);
1254   ELSE
1255     RETURN 0;
1256   END IF;
1257 end get_py_index_10;
1258 /
1259
1260 CREATE OR REPLACE FUNCTION get_py_index_11(p_Index1 NUMBER, p_Index NUMBER)
1261 RETURN NUMBER IS
1262   v_list11 TPYIndex_list := TPYIndex_list(
1263     TPYIndex_191_list(524,322, 4,328,459,471,515,229,194,206,418,215, 91,515, 56,518,501
1264     97,472, 87,477,341,515,172,483,179,139,254, 43,444,457,231,423,136,457,399,505,
1265     247,259,242,162, 21,119,220,198,109,456,277,449,161, 73,459,446,168,232,107,258,
1266     189,473,395, 0,231,143,459, 91,441,451,449,117,365,172, 98,187,505,431,498,161,
1267     473, 92,458,483,199,394,165,451,117,502, 40,346,395,159,214,432,345,415,229, 70,
1268     42,231,366,337, 18,149,517,147,462,479,485,111,149, 7, 13,141, 71,261,482, 46,
1269     297,341,341,456,233,341,164,175,175,521,471,456,181,494,477,106,173,180, 69,160,
1270     318, 26,229,350,461,431,354,214,451,164,242, 54,165,350,458, 6,135,418,237,459,
1271     235,184,462,263,415,219,470,166,442,507,193,507,172, 98, 42,457,184, 42,180,301,
1272     261,117, 18,483, 51,406,110,472,456,483, 18),
1273     TPYIndex_191_list(345,160,440,520,164,475,265,175, 92,175,411,214,161,468,503,178,505
1274     466,475,257,315, 3,121,341,257,417,418,318,458,231,417,189,522,475,300,453,364,
1275     422,417,342,229,406,515, 25,317,372,328,377,123,518,456,479,165,433,237,189,416,
1276     395,412,449, 0,149,505,505,246,477,484,422,295,457,173,125,249,185,411,522,417,
1277     446,112,452,276,242,417,313,522,442,466,139,468,231,412,251,268,246,179,518,141,
1278     298,483,408, 68,509,388,346,471,359,399,243,177,332, 40,229,333,447,459,417, 81,
1279     451, 98,180, 21,178, 43, 18, 42,301, 6,484,435,456,135,268,328, 3,332, 48,229,
1280     472,342,330, 43,225,501,457,388, 18,294,268,403,119,119,117,301,518,178,186, 13,
1281     492,408,117,521,477,301,420,461,162,329,229,339,194,515, 30,507,456, 6,237,388,
1282     21, 61, 42,172,460,177,483,509,125,449,213),
1283     TPYIndex_191_list( 18,451,237, 81,376,520,477,242,199,342, 65,339, 43,422,251,481, 42
1284     399,247,466, 61,240,491,491, 32,229,458,457,192,403, 17,501,341, 47,242,162,172,
1285     337,415,342,334,235,379,466,459, 47,214,408,237,280,165,331,415,108,345,352,473,
1286     422,460,483, 0,177,525,233,346,223, 96,463,491,339,175,508, 79,471,479, 96,186,
1287     300,491,337,434,446,501, 87,388,189,175,110,415,242,185,166,483,231,487,328,399,
1288     122,462,117,509,117, 51, 69,209,148,176,128,461,431,236,339,110,389,142, 97,398,
1289     237,352,449,518,194,460,431,263,166,408, 20,135,515,265,179,505,366,124,229,477,
1290     175, 23,330,251,225,267,378,462,233,497,176,341,345,164,523,474,172, 54,490,481,
1291     87,172,451, 23,265,186,194,240, 83, 69,334,265,173,106,133,467,471,155,474,246,
1292     457,166,231,339,479,339,161,215,472, 61,449),
```

```
1293     TPYIndex_191_list(517,378,341,517,225, 18,434,468,475, 97,143,422,351,111, 68,477, 3
1294     510,155,515,172,295,151,168,348, 23,479,214,297,467,175,175,341, 40,507,264,229,
1295     225,172,523,213,389,322,219, 91,485, 58,247, 21, 13,242,459,212,240, 98,242,175,
1296     221, 25,341, 0,474, 42,460,175,457,139, 31,295,225, 64,351,317,246,523,243,526,
1297     477,186,422,510,221,457,473,464,319,464,252,471,507,459,483,477, 43, 46,184,254,
1298     483,484,458,280, 3,422,179,165,479, 65, 61,468,501,337, 30,351,242, 18,491,452,
1299     451,487,423,456,390,339, 40,249,229,328,263,474,369,175, 51, 47, 61,461,109,314,
1300     510,277,507,503,240,182,333,242,458,461,482,507,445,507,236,135, 81,229,445, 47,
1301     193,223,471,359,507,505,140,339,435,216,182,162,155,141,178,243,185, 4,467,108,
1302     136,117,186,518,417,236, 51,111, 91,341,502),
1303     TPYIndex_191_list(507,479,165,518, 25,422,364, 17,237,468,219, 42,501,501,182, 6, 85
1304     258,249,402,388,388,258,472, 18,147, 18,388,341,192, 17,159,370,376,459,459,175,
1305     265,458,404, 90,498,280,500,322,458,236,139, 18,370,151,449,125,125,107, 51,460,
1306     141,265,384, 0,215,232,247,435,386,184,485,485, 42,351,235,422,387,215,472,452,
1307     472,483,167,483,452,460, 13,460,351,474,452,317,478,451,478,216,353,246, 56,232,
1308     143,175, 81,184, 62,393,278,498,231,221,172,332,184,350, 92, 56, 46,247, 40,184,
1309     468,257,479,505,110,418,416,462,124, 65,124,406, 23,364,510,462,179,342,339, 51,
1310     422,510,161,122,485,348,445,186,345,347,242,525,457,184,484,225,472,235, 25, 40,
1311     482, 6,268, 63,389,432,487,231,330, 70,172, 23,477,361, 98,136,194,242,507,477,
1312     505,161,229,474,395,507,352,242,503,292,450),
1313     TPYIndex_191_list(221,391,352,325,432,295,418,189,151,353, 55,449, 90,339,214,422,449
1314     166, 42,328,422,164,418,452,446,147,189,391,166,418,164,224,463,477,507,478,473,
1315     90, 98,394,320,199,487,507,328, 47, 98,351, 81,236,507, 24, 97,399,415,106,141,
1316     483,187,345, 0,464, 57,456,458,388,394,337,505,459, 72,320,477, 94,245,478,184,
1317     505,242,394,459,478,510,473,362,458, 49,472,478,483, 81,451,295,515, 58,518, 62,
1318     242,235,451,175,342,173,172,172,191, 79,121,175,492,313,236, 26, 17,497,328,334,
1319     119,219,122,149,421,124,494,463,487,141,151,491,254,483, 43,291,339,394,475, 44,
1320     472,166, 26,147,141,468,214, 3,266,444,470,474,457,279, 16,395,213,477,507,518,
1321     121,179,505,220,350,172, 70,117, 42,172,457, 81,483,135,179,351,175,176,332,254,
1322     136,456,136,172,184,175,329,193,346,417, 8),
1323     TPYIndex_191_list( 4,178,339,472,166,487,456,422,172, 72, 6,457,478,372,359,235,443
1324     483,472,111,291,106,172, 72,478,507,240,457,229,229,353,507,477,347,341,164,135,
1325     524,161,488,483, 50,415,147,455,403,164,184,488,481,172,457,237,229,306,469,488,
1326     172,172,276, 0,116,457,271,111,318,487, 48,473, 4,456, 83, 71,161, 84,271, 46,
1327     498,236,339,509,159,500,478,510,444,236, 89,479,456,236,236,159,478,125, 25,254,
1328     271, 65,175,376,399, 43,242,337,351,331, 72,459, 54, 89,471,478,194,487,108, 48,
1329     177, 91, 85,482,484,143,485,455,364,165,180,368,420,133,516,276,474,341,240, 89,
1330     188,242,173,393,509,526,137,505,351,507,180,140, 89,472,211,372,145,329,505,261,
1331     444,246, 67,319,449,294,180,472,110,483,520, 87,175, 62,278,262,447, 98,399, 47,
1332     479,125,247, 23,427,507, 53,136,259,378,388),
1333     TPYIndex_191_list(250,250,487,237,259, 23,456,451,216,457,477, 70,427,483,240, 69,172
1334     446,457,172,456,259,225,229,417, 3,110, 69,240,236,477,112,229, 13,151,151,151,
1335     24,348,432,505, 47,348,232,180,432,110,262, 13,432,166,475, 87, 40,341,361, 81,
1336     91,456,361, 0,347,298,478,372,276,447,522, 11,477,474,423, 18,178,159,319, 24,
1337     478,418,423,178, 4,154,133,340,435,479,415,433,468,206, 17,418,501,231,235,483,
1338     457,477,386,463,457, 21,372,184,412, 21, 21,399,135,136,161,110,172,221,483,320,
1339     254,500,180,291,237,477,473,451, 96,342,395,161,510,468,420,475,473,456,147,258,
1340     44,472,161,483,451, 92, 13,468, 20,443,237,251,389,487,477,483,108,415,459,186,
1341     64,408,423,467,457,229,161,181,161,110,395,408,459,507,351,161,117,526,261,507,
1342     59,505,433,339, 42,457,517,457,358,425,421),
1343     TPYIndex_191_list(328,216,219,498, 12,101,350,350,391,390,271,175, 81,312,423,418,462
1344     216,422,241,166,345,469,172,175,176, 42,418,161,459,341, 91,447,175,221,451,361,
1345     117,447,352,125,451,390,147, 43,216,365,487,391,451,125,117,423,135,487,124, 18,
1346     469,415, 91, 0,447, 91,117,182,459,462,459,172,488,224,322,479,479,487,322, 4,
1347     478,460,161,475, 87,348,214,460,405,147,467,477,467,136,411,214,339, 94,173,166,
1348     307,296,473,518,353,341,265,425,339, 94,254,258,123,483,483,418,469,263,172,122,
1349     71,162, 45, 96,471,517, 20,112,107, 3,229,240,498,439, 81,219,445,117,464,252,
1350     458,345,499, 89,280,125,455,339, 94, 15, 87, 46,509,178, 81,468, 20,503,142,377,
1351     348,351, 96, 79,176, 27,259, 25,191,507,117,117,467,262,208, 96,263, 70,394,484,
1352     477,415,518, 48,270,220,175, 81,417,471,291),
1353     TPYIndex_191_list(148,483,449,111, 96, 81, 83,317,334,236, 45,180,225,347,345, 98, 98
1354     393,477,477,194, 94,483,333,225,433,173,440,166,214,173,246,435, 47,479,487,161,
1355     147,180,443,443,332,220,443,518,518, 56, 87,220,421,147,341,212,522,459,347,477,
1356     374,431, 98, 0, 98,472,452,472,483,513,472,459,463,477,484,377,432,432,176,214,
1357     225,223,330,512,251, 63,474,149,345,136,470,472,166,388,366,259, 23,415,328,369,
1358     412,214,254,194,266,330, 47,191,235,136, 87, 18,352,432,108,505,391,449,442,117,
1359     123,136,229,472,328,221,229,172,497,151,139,185,179,119,477,334,502,233,441, 54,
1360     388,258, 41,307, 26,420,184, 11,341,109,192,440,168,314,483,506,136,194,334, 26,
1361     25,485,271,421, 83,406,395,468,418, 18,291,328, 97,193,223,106,482, 47,173,280,
1362     475, 47, 84,478,189,510, 87, 88,162,352,144)
1363 );
1364 BEGIN
1365     IF (p_Index>0) AND (p_Index<192) THEN
1366         RETURN v_list11(p_Index1)(p_Index);
1367     ELSE
1368         RETURN 0;
```

```
1369     END IF;
1370 end get_py_index_11;
1371 /
1372
1373 CREATE OR REPLACE FUNCTION get_py_index_12(p_Index1 NUMBER, p_Index NUMBER)
1374 RETURN NUMBER IS
1375     v_list12 TPYIndex_list := TPYIndex_list(
1376         TPYIndex_191_list(459,332,242,235,295,352,435,181,335,479,483,225,112, 88,137,117,451,
1377         117,420,234,172,468,461,184, 21,408,451,473,474,412,189,412,108,237,457,237,330,
1378         330,237, 21, 21, 21,233, 21,379,112,466,473,500,408,474,237,110,108,110,395, 30,
1379         172, 87,408, 0,445,500,516,361,483,473,395,478,108,108,416,478,510,477,526, 18,
1380         178,423, 13, 59,434,408, 13,395, 97,145,361,432,177,173, 24,474,439,386, 84,506,
1381         379, 49,422, 4,366,223,220,425,199,497,229,124, 98, 67,244,237,189,175,222,347,
1382         184, 1,342,306, 16, 73,194,215,136,168,320,185,421,518,346,189,408, 98, 40,412,
1383         164, 3,241,342,110,257,268,125,185,276,237,477,173, 23, 21,422,251,246,481,522,
1384         468, 81, 42,186,337,242, 96,221,337, 64,342, 79,168,517,477, 40, 21,508,393, 67,
1385         507, 18,518,268,399,247,172,117,222,194,361),
1386         TPYIndex_191_list( 59,460,473,185,106,224,457, 25,282, 98, 26,187, 90,413,483,457,474
1387         175,515, 24,459, 26,475,421,110,501,451,139, 98,302,487,161,165,166,500,160,151,
1388         464,111,451,136, 40,411,422, 25,124,457,214,237,412,459,475,452,268,422,251, 18,
1389         483,466,179, 0,376,443,513,388, 48, 70,477,339,359, 47,451,460,500,111,145,259,
1390         472,268, 42,460,246,491,279, 87,445, 97,173,224,457, 90,187,143,136,505,172,379,
1391         292,117,358,141,177,149,457,334, 85,161,481,182,484, 13,505,136, 89,242,351, 48,
1392         408,106,507,137,466,243, 25,229,161,483,459,431,456,263, 4, 15, 57,161, 98, 59,
1393         257,456,474,175,479,503,237,233,177,182,483,161,242,139, 24, 87,178,229,388,229,
1394         482,122,194, 70,498,319,510,468,173,471,477,507,223,456, 67,459,386,510,110,136,
1395         451,483,483, 70,219,477,160, 67,241,173,378),
1396         TPYIndex_191_list(475, 25,111, 25,291, 18,334,441,147,110,175, 4, 3,459,487,111,332
1397         333,341, 81,445,503, 48,470,510,507,320,463,363,372,487,452,507, 70,247,482, 25,
1398         13,211,445,477,351,337,351,181,334,502,484,322,509,184,510,301,184,328,522,173,
1399         236,505,499, 0,117,473,395, 18,445,445,408,237,249,329,423,507,364,427, 89,470,
1400         352,393,181,106,145, 25,510,478,246,509, 70,145,237,184,411,347,252, 48,268, 11,
1401         172,165, 21,246,479,499,240,478, 50, 11,220,477, 83,328, 83,351,477,411,457,349,
1402         516, 20,474,433, 90,194,483,470,184,483,477, 40,276,361,179,257,317, 71,340,125,
1403         198,231, 47,231,175, 21, 51,431, 18,184, 97, 68, 15, 13,247, 20,221, 48,503,342,
1404         366,317,399,467,187, 66,179,225,518, 44,408,168,223,422,313,241,176,300,268, 85,
1405         87, 70,236,297,143,214, 6,421,147,339,148),
1406         TPYIndex_191_list(232,147,441,468,443,187, 98, 47,464,408,242,515,509,391,329,215,423
1407         339,339,472,110,378,472,125,474,456,329, 61,329,341,110,165,341,168,483,431,352,
1408         458,520,214,365,408,137,445,443,412,341, 47,507,237,322,427,457, 32, 91,472,484,
1409         521,461,388, 0,339,507,403,242,457,246,501,268,474, 30,330, 61,351, 18,507,483,
1410         467,162, 25,413,461,235,500, 96,237,445, 35, 83,461,434,472,246,500,178,151,479,
1411         194,147, 98,513,295,251,377,149,366,332,161,341,350,172, 41,166,125,259,117,328,
1412         369,459,149,178,133, 90,478, 48,147,136,194,229,482,357,498,350,236, 47,482,349,
1413         173,280,507,408,351,435,216,339,177,473,270,393,503,390,456,229, 51,117,342,348,
1414         339,457,483,110,143,143,477,328,433,352,449,222,259, 57,364,278,117,214,194,117,
1415         412,483,482,241,350, 20,270,347, 6,251,252),
1416         TPYIndex_191_list(180,477,475,503,332,509,472,492,247,427,460,172,403,184,457,164,229
1417         330,464,347,520,413,214,403,451,451,451,483,122,477,192, 13, 15,499,431,461,210,
1418         443,128,329,483,415,334,461,318,186, 67,268,233,241,461,492,431, 23,212,242,124,
1419         345,193,345, 0,223,378,215,431,109,466,357, 70,215, 23,107,328,107,431, 13, 18,
1420         365,117,106,364,351,133,485,322,511,390,417,431,229, 23,431,322,411,249,484,457,
1421         48,422,318,395,165, 32,330,422,457,460,508,501,401,254,322,166,317,388,168,259,
1422         42,231,264,229, 91,351,116,479,348,458,395,510,483,172, 91,172,175,502,518,161,
1423         349,334, 68,394,494,135,229,408,433,173, 20, 48,208, 18,459,472,352,506,187,395,
1424         123,314,390,461,348,494,346,510,371,341,445, 18, 70,206,484,461,505,214,165,160,
1425         135,110,229, 18, 48,413,264, 90,242, 92,141),
1426         TPYIndex_191_list(506,520,405,175, 97,161,219,339,231,505,322,249,376,251,251,383,467
1427         279,216,297, 23,358, 90, 90,280,460,457, 90,147, 90, 90,182,483,483,472,229,463,
1428         141,520,237,462,389,257,339,339,119,467,483,443,339,232,122,330, 18,339,467, 50,
1429         472,500,483, 0, 72,361,178, 7,159,445, 84,172,483,162,346,417,148,444,268,178,
1430         393, 11,484,328,247,452,161,242,488,109,111,276,482,329,268,151,458, 83,491, 79,
1431         25,220,509,483,483, 49,457,295,307, 54,388,477, 18,508, 11,109,125,242,510,494,
1432         457,390,451,259,398, 32, 49,259,347,294,173,350,386, 18, 81,342,417,178,422,457,
1433         459,261, 7,229,433,457, 59, 30,235,520,376,160,491, 59,467,365,350,176,127,172,
1434         477,236,457,510,110,175,329,151,477,261,507,339,339,474, 72,117,351,182,346,234,
1435         518,491,278,503,176, 48, 87,122,509,477,136),
1436         TPYIndex_191_list(462,147,328,236,445, 25,350,333,117, 18,172,451,351, 84, 25,482,142
1437         420,319,117,498,184,136,395, 89, 69,418,340,399,160,505,106, 4,451,502,510,478,
1438         234,246,439,477,477, 24,451,177,209,462,459,125,166,223,117,193,466, 97,187,431,
1439         262,390,498, 0,417,347,483,282,503,142,128,413,456,350,393,337,164,433,229,386,
1440         386,193,259, 47,229,521,457,481,393,518,339,506,460,282, 57,172, 84,526,445,459,
1441         266,507,472,387, 47,441,225,215,320,161,431,467,145,422,223, 26,177,457,184,229,
1442         470,395, 67, 96,349,469, 63, 22, 13,418,175,117,342,507,117,388,229,445,173, 25,
1443         420,214,345, 18,459,459,172,177,232,172, 58,163, 48,507, 83, 25,507,175, 85, 53,
1444         508,184, 97, 67,329,365,295,317,339, 51,186,337,108, 63,510,235, 42,234,523,462,
```

```
1445     507, 84,268,466,268,328,161,186,389,136,524),
1446     TPYIndex_191_list(346,136,509, 89,220,110,291,477,215,242,182, 43,180,245,236,521,229
1447     292,161,483, 81,395,393,164,431,160,506,510,219,520,495, 20, 20,164,352,495,451,
1448     451,483, 57,365,498,165,231,472,350,350,175, 18, 98,473,117,457,459,458,451,161,
1449     395,371,468, 0,452,341,149,456,318,378,237,249,395,395,215,518,427,418,474,125,
1450     481,341,339,452,371,393,231, 6,224,166,265,172,433,351,175,393,251,133,413,507,
1451     518,348,232,483,229,452,435,172,320,110,386,478, 3,459,250, 46,184, 13,433,518,
1452     478,483, 58,455,265,484,445,515,416,187,184,246,351, 50,349,243,456,491,270, 6,
1453     237, 15,463,482,109, 7,333,292,242,413,117,160,420,141,178,451,106,172,177,460,
1454     470,128,229,231,175,395,433,142,386,164,172,348,236,521,110,215, 43,136,291,292,
1455     84,395,518,111, 85, 98,350,117,165, 20,378),
1456     TPYIndex_191_list(457,350, 21,172,172,510,176,466,513,481,501,192,469, 22,483,351,460
1457     413,165,525,445,388,108,186,235,470,263,457,497,460,111,139,160,211,495,378,500,
1458     122,141,479,229, 43,225,399, 3,366,172,483,161,399,229,234,246,264,505,460, 98,
1459     242,139,229, 0,459, 72,172,444, 7,151,482,498, 25,328,193,439,495,160,211,498,
1460     187,481,339,393, 18, 43,431,452,451,352,176,318,341,451,457,161,122, 6,339,418,
1461     139,474,224, 21,469,251,265,481,141,388,525,229, 68,473, 68,345,251,175,184,365,
1462     135, 15,178,440,209,136, 81,160,125,194, 18,241,340,212, 23, 91,257, 7,472,232,
1463     461,450, 48,460,472,434,423,481, 19,215,254,357,433,172,518,466,352,182, 23,164,
1464     234,256,166,261,172,187,510,261,339, 6,391,235, 69, 51,482,458,477,351, 91,229,
1465     348, 30, 4,111,482,456,472,457,350,147,498),
1466     TPYIndex_191_list(500,139,353,477,117,229,507, 26,472,117,502,172,112,366,472,395,112
1467     507,161,347,141,111,452,500,395,483,116,474,186,186,328,164,505, 13,472,471,506,
1468     109,112,452,313, 69,125,366,236,264,117,445,452,229, 20,507,125,484, 59,351,461,
1469     48, 70,184, 0,474,136,508,483,473,483,471,434,483,432,479, 94,456,106,137, 3,
1470     507,472,155,461,173,234,510,473,477,159,242,366,270,125,361,461,466, 0, 0, 0,
1471     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1472     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1473     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1474     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1475     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1476 );
1477 BEGIN
1478     IF (p_Index>0) AND (p_Index<192) THEN
1479         RETURN v_list12(p_Index1)(p_Index);
1480     ELSE
1481         RETURN 0;
1482     END IF;
1483 end get_py_index_12;
1484 /
1485
1486 CREATE OR REPLACE FUNCTION get_py_index_13(p_Index1 NUMBER, p_Index NUMBER)
1487 RETURN NUMBER IS
1488     v_list13 TPYIndex_list := TPYIndex_list(
1489     TPYIndex_191_list(509, 48,246,155,292, 98,243,173,172,441,185,445,337,456,185,483, 21
1490     457,187,184,441,180,431, 98, 98,213,161,456,393,220,177,317,242,328,399,117,471,
1491     517,322,350,341, 15, 84,242,353,175,184,441,471,484,339,229,475,515,206, 97,215,
1492     394,339,180, 0,477,477,348,518,220, 89,339,442,128,184,351,477,525,172,399,446,
1493     48,263,365,471,350,431,161,431, 98,178,254,117, 57,441,472,151,484, 0, 0, 0,
1494     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1495     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1496     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1497     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1498     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1499     TPYIndex_191_list(329,215,257,161,479,507,456,184, 89,342,109,161,479,484,459,453,395
1500     458,371,237,172,161,341,470,147, 59, 59,477,474,472,172,229,432,208,431,431,477,
1501     441,249,461,124,432, 46,172,442,503, 6,474,477,313, 48,507,237,481,247, 18,403,
1502     517,483,456, 0,186,478,431,408,177,477,162, 18,479,413,165,108,177,233,472,124,
1503     182,459,459,441,250,525,483,479,242,442,459,469,477,328,510,246,457, 0, 0, 0,
1504     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1505     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1506     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1507     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1508     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1509     TPYIndex_191_list(477,172,494,483,500,475,473,328,297,161,261,479,259, 81,485,483,225
1510     240,403,485,479,352,351,229,243,395,342,461,236,469,155,509,456,215,341,128,484,
1511     413,151,350,477,453,237,172,477,477,164,500,259,403,242,179,236,175,459, 67,175,
1512     175,472,482, 0, 63,319, 63,319,510,175,261,483,237, 46,354,235,291,182,354,180,
1513     408,460,472,173,261,229,501,180,339,236,472, 63,250,151, 44,117,262, 0, 0, 0,
1514     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1515     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1516     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1517     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1518     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1519     TPYIndex_191_list(262,117,319,351,351,270,117,472,220,262, 48,112,351,262,268,268,521
1520     179,140,432,440,162,213,159, 48,152,477, 70,457,444,268,341,500,472,257,472,485,
```

```

1521      422,472,472,472,505,505,516, 30,477,257,500,472, 91,242,111,265,484, 63,351,502,
1522      447,510,507, 0,259, 6, 22,445, 18,502,261,505,518,136, 89,111,484, 43,124,339,
1523      484,422,427,399,110,452,110, 84,445,508,351,394,395,395,435,457,180, 0, 0, 0,
1524      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1525      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1526      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1527      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1528      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1529      TPYIndex_191_list(167,457,472,441,408,459,225,474,456,456,209,462,151,466,453,498,299
1530      172,518,172,172, 48, 46, 46,151,471,478,462, 13,494,462,518, 48,472,498,433,236,
1531      236, 51,352,462,478,295,182,474, 58,487,483, 51,477,291,498,521,351,487,472,483,
1532      98,455,477, 0, 67,521, 83, 51,179,471,151,478,252,318,455,318,472,252,240,133,
1533      194, 68,236, 68,350,350, 22, 56,151,186,462,485, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1534      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1535      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1536      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1537      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1538      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1539      TPYIndex_191_list( 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
1540      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1541      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1542      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1543      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1544      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1545      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1546      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1547      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1548      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
1549      );
1550 BEGIN
1551     IF (p_Index>0) AND (p_Index<192) THEN
1552         RETURN v_list13(p_Index1)(p_Index);
1553     ELSE
1554         RETURN 0;
1555     END IF;
1556 end get_py_index_13;
1557 /
1558
1559 CREATE OR REPLACE FUNCTION GetHzFullPY(p_String varchar2)
1560 RETURN VARCHAR2 IS
1561 --declare
1562 --p_String varchar2(200) := '???????';
1563 v_char varchar2(2); --????
1564 n_loop number; --??
1565 n_len number; --????
1566 n_ascii number; --??ASCII?
1567 n_ord_high number; --n_ascii/156
1568 n_ord_low number; --n mod 256
1569 n_temp number;
1570 n_temp1 number;
1571 v_PY varchar2(32767);
1572
1573 BEGIN
1574     v_PY := '';
1575     n_len := length(p_String);
1576     FOR n_loop IN 1..n_len LOOP
1577         v_char := substr(p_string,n_loop,1);
1578         IF upper(v_char) IN (
1579             'A','B','C','D','E','F','G',
1580             'H','I','J','K','L','M','N',
1581             'O','P','Q','R','S','T',
1582             'U','V','W','X','Y','Z',
1583             '0','1','2','3','4','5','6','7','8','9',
1584             '(', ')', '[', ']', '.', '!', '@', '#', '$',
1585             '%', '^', '&', '*', '-', '+', '<', '>', '?', ':', '"') THEN
1586             v_PY := v_PY||v_char;
1587         ELSE
1588             n_ascii := ascii(v_char);
1589             n_ord_high := trunc(n_ascii/256,0);
1590             n_ord_low := n_ascii-(n_ord_high*256);
1591             --DBMS_OUTPUT.PUT_LINE('n_ascii = '||to_char(n_ascii,'9999999'));
1592             --DBMS_OUTPUT.PUT_LINE('n_ord_high = '||to_char(n_ord_high,'9999999'));
1593             --DBMS_OUTPUT.PUT_LINE('n_ord_low = '||to_char(n_ord_low,'9999999'));
1594             IF (n_ord_high>128) and (n_ord_low>63) THEN
1595                 CASE n_ord_high
1596                     WHEN 162 THEN --????

```

```

1597         IF n_ord_low>160 THEN
1598             v_PY := v_PY||get_roma_num_py(n_ord_low-160);
1599         END IF;
1600     WHEN 163 THEN      --??ASCII
1601         IF n_ord_low>128 THEN
1602             v_char := chr(n_ord_low-128);
1603             IF upper(v_char) IN (
1604                 'A','B','C','D','E','F','G',
1605                 'H','I','J','K','L','M','N',
1606                 'O','P','Q','R','S','T',
1607                 'U','V','W','X','Y','Z',
1608                 '0','1','2','3','4','5','6','7','8','9',
1609                 '(', ')', '[', ']') THEN
1610                 v_PY := v_PY||v_char;
1611             END IF;
1612         END IF;
1613     WHEN 166 THEN      --????
1614         IF (n_ord_low>160) AND (n_ord_low<185) THEN --A1--B8
1615             v_PY := v_PY||get_greece_alphabet_py(n_ord_low-160);
1616         ELSE
1617             IF (n_ord_low>192) AND (n_ord_low<217) THEN --C1--D8
1618                 v_PY := v_PY||get_greece_alphabet_py(n_ord_low-192);
1619             END IF;
1620         END IF;
1621     ELSE
1622     BEGIN
1623         n_temp := n_ord_high-128;
1624         n_ord_low := n_ord_low-63;
1625         n_temp1 := trunc(n_temp/10,0);
1626         n_temp1 := n_temp-n_temp1*10;
1627         IF n_temp1=0 THEN
1628             n_temp1 := 10;
1629         END IF;
1630         --DBMS_OUTPUT.PUT_LINE('n_temp = '||to_char(n_temp,'9999999'));
1631         --DBMS_OUTPUT.PUT_LINE('n_temp1 = '||to_char(n_temp1,'9999999'));
1632         CASE
1633         WHEN n_temp<11 THEN
1634             n_temp1 := get_py_index_01(n_temp1,n_ord_low);
1635         WHEN n_temp<21 THEN
1636             n_temp1 := get_py_index_02(n_temp1,n_ord_low);
1637         WHEN n_temp<31 THEN
1638             n_temp1 := get_py_index_03(n_temp1,n_ord_low);
1639         WHEN n_temp<41 THEN
1640             n_temp1 := get_py_index_04(n_temp1,n_ord_low);
1641         WHEN n_temp<51 THEN
1642             n_temp1 := get_py_index_05(n_temp1,n_ord_low);
1643         WHEN n_temp<61 THEN
1644             n_temp1 := get_py_index_06(n_temp1,n_ord_low);
1645         WHEN n_temp<71 THEN
1646             n_temp1 := get_py_index_07(n_temp1,n_ord_low);
1647         WHEN n_temp<81 THEN
1648             n_temp1 := get_py_index_08(n_temp1,n_ord_low);
1649         WHEN n_temp<91 THEN
1650             n_temp1 := get_py_index_09(n_temp1,n_ord_low);
1651         WHEN n_temp<101 THEN
1652             n_temp1 := get_py_index_10(n_temp1,n_ord_low);
1653         WHEN n_temp<111 THEN
1654             n_temp1 := get_py_index_11(n_temp1,n_ord_low);
1655         WHEN n_temp<121 THEN
1656             n_temp1 := get_py_index_12(n_temp1,n_ord_low);
1657         WHEN n_temp<121 THEN
1658             n_temp1 := get_py_index_13(n_temp1,n_ord_low);
1659         ELSE
1660             n_temp1 := 0;
1661         END CASE;
1662         v_PY := v_PY||GetHzPY_by_index(n_temp1);
1663     END;
1664     END CASE;
1665     END IF;
1666     END IF;
1667     END LOOP;
1668     RETURN v_PY;
1669     --DBMS_OUTPUT.PUT_LINE(v_PY);
1670 END;
1671 /
1672

```

```

1673 CREATE OR REPLACE FUNCTION GetHzPYCAP(p_String varchar2) --?????
1674 RETURN VARCHAR2 IS
1675 --declare
1676 --p_String varchar2(200) := '???????';
1677 v_char varchar2(2); --????
1678 n_loop number; --??
1679 n_len number; --????
1680 n_ascii number; --??ASCII?
1681 n_ord_high number; --n_ascii/156
1682 n_ord_low number; --n mod 256
1683 n_temp number;
1684 n_temp1 number;
1685 v_PY varchar2(32767);
1686
1687 BEGIN
1688 v_PY := '';
1689 n_len := length(p_String);
1690 FOR n_loop IN 1..n_len LOOP
1691 v_char := substr(p_string,n_loop,1);
1692 IF upper(v_char) IN (
1693 'A','B','C','D','E','F','G',
1694 'H','I','J','K','L','M','N',
1695 'O','P','Q','R','S','T',
1696 'U','V','W','X','Y','Z',
1697 '0','1','2','3','4','5','6','7','8','9',
1698 '(', ')', '[', ']', '.', '!', '@', '#', '$',
1699 '%', '^', '&', '*', '-', '+', '<', '>', '?', ':', '"') THEN
1700 v_PY := v_PY||v_char;
1701 ELSE
1702 n_ascii := ascii(v_char);
1703 n_ord_high := trunc(n_ascii/256,0);
1704 n_ord_low := n_ascii-(n_ord_high*256);
1705 --DBMS_OUTPUT.PUT_LINE('n_ascii = '||to_char(n_ascii,'9999999'));
1706 --DBMS_OUTPUT.PUT_LINE('n_ord_high = '||to_char(n_ord_high,'9999999'));
1707 --DBMS_OUTPUT.PUT_LINE('n_ord_low = '||to_char(n_ord_low,'9999999'));
1708 IF (n_ord_high>128) and (n_ord_low>63) THEN
1709 CASE n_ord_high
1710 WHEN 162 THEN --????
1711 IF n_ord_low>160 THEN
1712 v_PY := v_PY||get_roma_num_py(n_ord_low-160);
1713 END IF;
1714 WHEN 163 THEN --??ASCII
1715 IF n_ord_low>128 THEN
1716 v_char := chr(n_ord_low-128);
1717 IF upper(v_char) IN (
1718 'A','B','C','D','E','F','G',
1719 'H','I','J','K','L','M','N',
1720 'O','P','Q','R','S','T',
1721 'U','V','W','X','Y','Z',
1722 '0','1','2','3','4','5','6','7','8','9',
1723 '(', ')', '[', ']) THEN
1724 v_PY := v_PY||v_char;
1725 END IF;
1726 END IF;
1727 WHEN 166 THEN --????
1728 IF (n_ord_low>160) AND (n_ord_low<185) THEN --A1--B8
1729 v_PY := v_PY||get_greece_alphabet_py(n_ord_low-160);
1730 ELSE
1731 IF (n_ord_low>192) AND (n_ord_low<217) THEN --C1--D8
1732 v_PY := v_PY||get_greece_alphabet_py(n_ord_low-192);
1733 END IF;
1734 END IF;
1735 ELSE
1736 BEGIN
1737 n_temp := n_ord_high-128;
1738 n_ord_low := n_ord_low-63;
1739 n_temp1 := trunc(n_temp/10,0);
1740 n_temp1 := n_temp-n_temp1*10;
1741 IF n_temp1=0 THEN
1742 n_temp1 := 10;
1743 END IF;
1744 --DBMS_OUTPUT.PUT_LINE('n_temp = '||to_char(n_temp,'9999999'));
1745 --DBMS_OUTPUT.PUT_LINE('n_temp1 = '||to_char(n_temp1,'9999999'));
1746 CASE
1747 WHEN n_temp<11 THEN
1748 n_temp1 := get_py_index_01(n_temp1,n_ord_low);

```

```
1749         WHEN n_temp<21 THEN
1750             n_temp1 := get_py_index_02(n_temp1,n_ord_low);
1751         WHEN n_temp<31 THEN
1752             n_temp1 := get_py_index_03(n_temp1,n_ord_low);
1753         WHEN n_temp<41 THEN
1754             n_temp1 := get_py_index_04(n_temp1,n_ord_low);
1755         WHEN n_temp<51 THEN
1756             n_temp1 := get_py_index_05(n_temp1,n_ord_low);
1757         WHEN n_temp<61 THEN
1758             n_temp1 := get_py_index_06(n_temp1,n_ord_low);
1759         WHEN n_temp<71 THEN
1760             n_temp1 := get_py_index_07(n_temp1,n_ord_low);
1761         WHEN n_temp<81 THEN
1762             n_temp1 := get_py_index_08(n_temp1,n_ord_low);
1763         WHEN n_temp<91 THEN
1764             n_temp1 := get_py_index_09(n_temp1,n_ord_low);
1765         WHEN n_temp<101 THEN
1766             n_temp1 := get_py_index_10(n_temp1,n_ord_low);
1767         WHEN n_temp<111 THEN
1768             n_temp1 := get_py_index_11(n_temp1,n_ord_low);
1769         WHEN n_temp<121 THEN
1770             n_temp1 := get_py_index_12(n_temp1,n_ord_low);
1771         WHEN n_temp<121 THEN
1772             n_temp1 := get_py_index_13(n_temp1,n_ord_low);
1773         ELSE
1774             n_temp1 := 0;
1775         END CASE;
1776         v_PY := v_PY||substr(GetHzPY_by_index(n_temp1),1,1);
1777     END;
1778 END CASE;
1779 END IF;
1780 END IF;
1781 END LOOP;
1782 RETURN v_PY;
1783 --DBMS_OUTPUT.PUT_LINE(v_PY);
1784 END GetHzPYCAP;
1785 /
1786
1787 revoke Execute on GetHzFullPY from public;
1788 revoke Execute on GetHzPYCAP from public;
1789 grant Execute on GetHzFullPY to public;
1790 grant Execute on GetHzPYCAP to public;
1791
1792
1793 --EXAMPLE
1794 select GetHzFullPY('中华人民共和国') from dual;
1795 /
1796
1797 select GetHzPYCAP('中华人民共和国') from dual;
```