

```
typedef double XFLOAT;
typedef double OTA_FLOAT;

namespace POLQAV2
{
XFLOAT gCriticalBandFrequencies [261] = {
0, 9, 18, 27, 36, 45, 54, 63, 72, 81, 91, 101, 111, 121, 131, 141, 151, 161, 171,
181, 191, 201, 211, 221, 231, 241, 251, 261, 272, 283, 294, 305, 316, 327, 338,
349, 360, 370, 380, 389, 399, 408, 418, 428, 438, 448, 458, 469, 480, 491, 502,
513, 524, 535, 546, 557, 569, 581, 593, 606, 619, 632, 645, 658, 672, 686, 700,
714, 728, 742, 756, 770, 784, 798, 813, 828, 843, 858, 873, 888, 903, 918, 934,
950, 966, 982, 998, 1015, 1032, 1050, 1068, 1086, 1104, 1123, 1142, 1162, 1182,
1202, 1222, 1243, 1264, 1285, 1307, 1329, 1351, 1373, 1395, 1418, 1441, 1464,
1487, 1510, 1533, 1557, 1581, 1605, 1629, 1653, 1678, 1703, 1728, 1754, 1780,
1806, 1832, 1859, 1886, 1914, 1942, 1971, 2000, 2030, 2060, 2090, 2121, 2153,
2186, 2219, 2252, 2287, 2322, 2358, 2394, 2431, 2469, 2508, 2548, 2588, 2629,
2671, 2713, 2756, 2800, 2845, 2890, 2936, 2982, 3029, 3078, 3127, 3177, 3228,
3281, 3334, 3389, 3445, 3502, 3561, 3621, 3681, 3745, 3809, 3874, 3941, 4010,
4080, 4152, 4225, 4300, 4376, 4454, 4534, 4616, 4699, 4785, 4871, 4959, 5048,
5138, 5231, 5325, 5421, 5518, 5617, 5718, 5819, 5924, 6030, 6139, 6249, 6362,
6476, 6596, 6728, 6863, 7000, 7141, 7284, 7430, 7579, 7731, 7884, 8053, 8226,
8402, 8582, 8765, 8953, 9145, 9341, 9541, 9767, 9998, 10235, 10477, 10725,
10979, 11239, 11505, 11778, 12057, 12370, 12691, 13021, 13359, 13706, 14062,
14427, 14802, 15186, 15580, 15990, 16413, 16899, 17408, 17939, 18500, 19087,
19703, 20354, 21034, 21753, 22505, 23292, 24121, 24988, 25894, 26841, 27796,
28853, 30000};

#pragma warning(once:4305)

XFLOAT gAbsoluteThresholdMapDb [251] = {
120.2, 110.1, 100.3, 93, 85.1, 76.9, 70.5, 64.8, 60.7, 57.0,
53.9, 50.8, 47.7, 44.7, 42.0, 39.4, 37.9, 36.4, 35.0, 33.6,
32.2, 30.9, 29.7, 28.6, 27.4, 26.4, 25.4, 24.5, 23.6, 22.7,
21.9, 21.1, 20.3, 19.6, 18.9, 18.2, 17.5, 16.9, 16.3, 15.8,
15.2, 14.8, 14.3, 13.8, 13.4, 13.0, 12.6, 12.2, 11.9, 11.5,
11.2, 10.9, 10.6, 10.3, 10.0, 9.7, 9.5, 9.2, 9.0, 8.8,
8.6, 8.4, 8.2, 8.0, 7.9, 7.7, 7.5, 7.4, 7.2, 7.1,
7.0, 6.8, 6.7, 6.6, 6.5, 6.4, 6.3, 6.3, 6.2, 6.1,
6.1, 6.1, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0,
6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.0, 6.1,
6.1, 6.2, 6.2, 6.3, 6.4, 6.4, 6.5, 6.6, 6.6, 6.7,
6.8, 6.9, 7.0, 7.0, 7.1, 7.2, 7.3, 7.3, 7.4, 7.5,
7.6, 7.7, 7.7, 7.8, 7.9, 8.0, 8.1, 8.1, 8.2, 8.3,
8.4, 8.4, 8.5, 8.6, 8.6, 8.7, 8.7, 8.8, 8.8, 8.8,
8.9, 8.9, 8.9, 8.9, 9.0, 9.0, 9.0, 9.0, 9.0, 9.0,
9.0, 9.0, 9.0, 9.0, 9.1, 9.1, 9.1, 9.1, 9.1, 9.1,
9.1, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2,
9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.1, 9.1, 9.0, 9.0,
8.9, 8.9, 8.8, 8.7, 8.7, 8.6, 8.5, 8.4, 8.3, 8.2,
8.0, 7.9, 7.8, 7.7, 7.7, 7.6, 7.6, 7.6, 7.6, 7.6,
7.7, 7.7, 7.8, 7.9, 8.0, 8.2, 8.3, 8.5, 8.7, 9.0,
9.3, 9.7, 10.1, 10.5, 11.0, 11.5, 12.0, 12.5, 12.9, 13.4,
14.0, 14.6, 15.3, 15.5, 15.8, 16.3, 16.8, 17.4, 17.9, 18.4,
18.8, 19.3, 19.9, 20.5, 21.0, 22.2, 23.2, 24.3, 25.5, 26.8,
28.0, 29.3, 30.7, 32.5, 34.9, 38.1, 42.4, 49.7, 61.1, 74.3, 87.5};
}
```