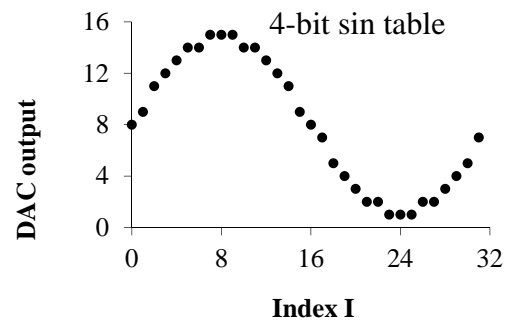


n= 32	A	8
	B	7
time	sin	A+Bsin(t) integer
0	0	0 8 8
1	0.19635	0.19509 9.365632 9
2	0.392699	0.382683 10.67878 11
3	0.589049	0.55557 11.88899 12
4	0.785398	0.707107 12.94975 13
5	0.981748	0.83147 13.82029 14
6	1.178097	0.92388 14.46716 14
7	1.374447	0.980785 14.8655 15
8	1.570796	1 15 15
9	1.767146	0.980785 14.8655 15
10	1.963495	0.92388 14.46716 14
11	2.159845	0.83147 13.82029 14
12	2.356194	0.707107 12.94975 13
13	2.552544	0.55557 11.88899 12
14	2.748894	0.382683 10.67878 11
15	2.945243	0.19509 9.365632 9
16	3.141593	-7.7E-16 8 8
17	3.337942	-0.19509 6.634368 7
18	3.534292	-0.38268 5.321216 5
19	3.730641	-0.55557 4.111008 4
20	3.926991	-0.70711 3.050253 3
21	4.12334	-0.83147 2.179713 2
22	4.31969	-0.92388 1.532843 2
23	4.516039	-0.98079 1.134503 1
24	4.712389	-1 1 1
25	4.908739	-0.98079 1.134503 1
26	5.105088	-0.92388 1.532843 2
27	5.301438	-0.83147 2.179713 2
28	5.497787	-0.70711 3.050253 3
29	5.694137	-0.55557 4.111008 4
30	5.890486	-0.38268 5.321216 5
31	6.086836	-0.19509 6.634368 7



```
// 4-bit 32-element sine wave
const unsigned short wave[32] = {
    8,9,11,12,13,14,14,15,15,15,14,
    14,13,12,11,9,8,7,5,4,3,2,
    2,1,1,1,2,2,3,4,5,7};
```

	n
Bus clock	Pnts/wave Bus/n
80000000	32 2500000

	Freq (Hz)	Period	Freq (Hz)	// Period = 80000000/32/Freq=2500000/Freq
C1	2093.0	1194	2093.0	#define C1 1194 // 2093 Hz
B1	1975.5	1265	1975.5	#define B1 1265 // 1975.5 Hz
BF1	1864.7	1341	1864.7	#define BF1 1341 // 1864.7 Hz
A1	1760.0	1420	1760.0	#define A1 1420 // 1760 Hz
AF1	1661.2	1505	1661.2	#define AF1 1505 // 1661.2 Hz

G1	1568.0	1594	1568.0	#define G1	1594	// 1568 Hz
GF1	1480.0	1689	1480.0	#define GF1	1689	// 1480 Hz
F1	1396.9	1790	1396.9	#define F1	1790	// 1396.9 Hz
E1	1318.5	1896	1318.5	#define E1	1896	// 1318.5 Hz
EF1	1244.5	2009	1244.5	#define EF1	2009	// 1244.5 Hz
D1	1174.7	2128	1174.7	#define D1	2128	// 1174.7 Hz
DF1	1108.7	2255	1108.7	#define DF1	2255	// 1108.7 Hz
C	1046.5	2389	1046.5	#define C	2389	// 1046.5 Hz
B	987.8	2531	987.8	#define B	2531	// 987.8 Hz
BF	932.3	2681	932.3	#define BF	2681	// 932.3 Hz
A	880.0	2841	880.0	#define A	2841	// 880 Hz
AF	830.6	3010	830.6	#define AF	3010	// 830.6 Hz
G	784.0	3189	784.0	#define G	3189	// 784 Hz
GF	740.0	3378	740.0	#define GF	3378	// 740 Hz
F	698.5	3579	698.5	#define F	3579	// 698.5 Hz
E	659.3	3792	659.3	#define E	3792	// 659.3 Hz
EF	622.3	4018	622.3	#define EF	4018	// 622.3 Hz
D	587.3	4257	587.3	#define D	4257	// 587.3 Hz
DF	554.4	4510	554.4	#define DF	4510	// 554.4 Hz
C0	523.3	4778	523.3	#define C0	4778	// 523.3 Hz
B0	493.9	5062	493.9	#define B0	5062	// 493.9 Hz
BF0	466.2	5363	466.2	#define BF0	5363	// 466.2 Hz
A0	440.0	5682	440.0	#define A0	5682	// 440 Hz
AF0	415.3	6020	415.3	#define AF0	6020	// 415.3 Hz
G0	392.0	6378	392.0	#define G0	6378	// 392 Hz
GF0	370.0	6757	370.0	#define GF0	6757	// 370 Hz
F0	349.2	7159	349.2	#define F0	7159	// 349.2 Hz
E0	329.6	7584	329.6	#define E0	7584	// 329.6 Hz
EF0	311.1	8035	311.1	#define EF0	8035	// 311.1 Hz
D0	293.7	8513	293.7	#define D0	8513	// 293.7 Hz
DF0	277.2	9019	277.2	#define DF0	9019	// 277.2 Hz
C7	261.6	9556	261.6	#define C7	9556	// 261.6 Hz
B7	246.9	10124	246.9	#define B7	10124	// 246.9 Hz
BF7	233.1	10726	233.1	#define BF7	10726	// 233.1 Hz
A7	220.0	11364	220.0	#define A7	11364	// 220 Hz
AF7	207.7	12039	207.7	#define AF7	12039	// 207.7 Hz
G7	196.0	12755	196.0	#define G7	12755	// 196 Hz
GF7	185.0	13514	185.0	#define GF7	13514	// 185 Hz
F7	174.6	14317	174.6	#define F7	14317	// 174.6 Hz
E7	164.8	15169	164.8	#define E7	15169	// 164.8 Hz
EF7	155.6	16071	155.6	#define EF7	16071	// 155.6 Hz
D7	146.8	17026	146.8	#define D7	17026	// 146.8 Hz
DF7	138.6	18039	138.6	#define DF7	18039	// 138.6 Hz
C6	130.8	19111	130.8	#define C6	19111	// 130.8 Hz