10.1 listing

```
// MELODIYA - nota massivi va davr massivi
char melody [ ]={'G','G','G','E','H','G','E','H','G','*',
'd','d','d','e','H',
'T','E','H','F',
'g','G','G','g','t','e',
's','s','s','*','U','r','c','B',
'H','A','H','*','E','T','E','F',
'H','G','H','d',
'g','G','G','g','t','f',
's','s','s','*','E','T','E','H',
'H','A','H','*','E','T','E','H',
'G','E','H','H', '%','%'};
intbb[ ]={8,8,8,6,2,
8,6,2,8,8,
8,8,8,6,2,
8,6,2,16,
8,6,2,8,6,2,
2,2,4,4,2,8,6,2,
2,2,4,4,2,8,6,2,
8,6,2,16,
8,6,2,8,6,2,
2,2,4,4,2,8,6,2,
2,2,4,4,2,8,6,2,
8,6,2,16,
64,64};
// pin 8 ga dinamik ulansin
intspeakerPin = 8;
// nota, davrni hosil qilish jadalligi
int tempo,notes,beats;
// notani ijro etish amali
void playNote(char note, int duration)
{
// ikki oktava oralig'idagi notalar nomi uchun massiv
charnames [ ]={'c','r','d','s','e','f','t','g','u','a','b',
'h','C','R','D','S','E','F','T','G','U','A','B','H','F'};
// notalar chastotasining massivi
inttones[ ] = {261,277,293,311,329,349,370,392,415,440,466,
494, 523,554,587,622,659,698,740,784,830,880,932,988};
// tegishli notaga tonini ierosi
for (int i = 0; i < sizeof (tones); i++)
{
if (names[i] == note)
```