digital arraying machine:

a sampling rate of 12 KHz

a quantization of 8 bits

* Question: How much memory (MB) is required to store 20 minutes of conversation? What size memory chip is appropriate?

Solution: N= total number of scumples = 12 KH2 x 20 min x 60s

= 12 x103 x20x60

= 1.44 x107

total number of bits: $8*N = 8* 1.44 \times 10^7 = 1.152 \times 10^8$. 8 bits =1 byte, $1.152 \times 10^8 / 8 = 1.44 \times 10^7$ (B)

1.44 ×107 byte = 144 ×105 byte = +44 144 ×102 KB = 14.4 MB

needed a 16 MB memory chip

🖈 Question: 1.

- 1. Zip every voice file so that less chips are needed
- 2. buy several big chips instead instead of many small one.
- 3. Chasse different brands or companies' chips which is chapter.