

6.RP Data Transfer

Task

The data transfer rate of an Internet connection is the rate in *bytes* per second that a file can be transmitted across the connection. Data transfer is typically measured in kilobytes (KB) per second, or megabytes (MB) where $1 \text{ MB} = 2^{10} \text{ KB} = 1024 \text{ KB}$. Suppose the data transfer rate of your internet connection is 500 KB per second.

- a. How long will it take to download a music file that is 5 MB?
- b. How long will it take to download a video file that is 100 MB?



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