# Data Transfer

You will be given several lines of **messages containing data**. You have to **check for the validity of the lines**. A **valid** line should be in the format:**“s:{sender};r:{receiver};m--"{message} "”**

* **sender –** could contain **any ascii character except for “;”**
* **receiver –** could contain **any ascii character except for “;”**
* **message –** should contain **only letters and spaces**

In each valid message there is a **hidden size of data transfer.** The size of the data transfer is **calculated by the sum of all digits in the names of the sender and receiver**. After each valid message print a line in the format: “**{senderName} says "{currentMessage}" to {recieverName}”.**The **printed names should contain only letters and spaces**. Example: sender “P@e$5sh#o Go^4sh5ov” is **valid** and **matches**, but when printing his name, **we only print** “PeshoGoshov”.

At the end print a line in the format **“Total data transferred: {totalData}MB”**.

## Input / Constraints

* First line will be a number **n** in range [1, 100].
* The next **n** lines will be **strings**.

## Output

* Print each valid message in the format described above.
* Print the total amount of data transfer.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3  s:P5%es4#h@o;r:G3#o!!s2h#2o;m--"Attack"  s:G3er%6g43i;r:Kak€$in2% re3p5ab3lic%an;m--"I can sing"  s:BABAr:Ali;m-No cave for you | Pesho says "Attack" to Gosho  Gergi says "I can sing" to Kakinrepablican  Total data transferred: 45MB |
| 5  s:B^%4i35454l#$l;r:Mo5l#$34l%y;m--"Run"  s:Ray;r:To^^5m;m--"Hidden Message"  bla;r:1234a;m--Hello  s:M#$%$#^6767687654545e;r:Yo54$#@#u5;m--"$$$"  s:M#$@545e;r:You241$@#23;m"Hello" | Bill says "Run" to Molly  Ray says "Hidden Message" to Tom  Total data transferred: 42MB |

"^s:([^;]+);r:([^;]+);m--\"([A-Za-z]+)\"$"

s:([^;]\*);r:([^\;]\*);m--"([A-Za-z]+)"