## Decrypting Messages

On the **first line**, you will receive a **key** (**integer**). On the **second line**, you will receive **n** – the number of **lines**, which will **follow**.On the next **n lines** – you will receive a **lower** and an **uppercase** letter per line.

You should **add the key** to **each of the characters** and append them to a **message**. At the end **print the** **decrypted message**.

### Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |
| **3**  **7**  P  l  c  q  R  k  f | SoftUni |  | **1**  **7**  C  d  b  q  x  o  s | Decrypt |