

Eating Contest

Time Limit: 1 s

Memory Limit: 256 MB

Description

To commemorate the birthday of Wakanda, a contest was made for its people. The contest is to eat as many burgers as possible and is only done by 2 people for each team. Thus, the team that eats the most burgers in total will be the winner. However, the rules in this game may not have participants with the same name so that the participant's name is guaranteed to be unique. You as a prodigy programmer, make a program to find out the winning team!

Input

- The first line is **N MIN**.
 - **N** represents the number of participants. The number is guaranteed to be even since the contest consists of teams of 2 people.
 - **MIN** represents the contest length in Minute.
- The next **N** line is **NAME EatPerMinute**.
 - **NAME** represents the name of each participant
 - **EatPerMinute** represents the total food each participant can eat per minute
- The next **N/2** line is **TEAMMATE1 TEAMMATE2**. Those represent the name of contestants of each team.

Output

- First Line, Print the winner team {name1} & {name2} Win!
- Second Line, Print the total burgers eaten by the winning team Total Eaten: . then insert the total eaten.

Constraints

$$4 \leq N \leq 100$$

$$N \% 2 == 0$$

$$MIN \geq 1$$

$$\text{EatPerMinute} \geq 1$$

USE STRUCT & POINTER TO STORE THE TEAMMATE REFERENCE

Examples

#1

Input
4 10 Narto 5 Saske 3 Upil 6 Ipul 4 Upil Narto Saske Ipul
Output
Upil & Narto Win! Total Eaten: 110

#2

Input
6 5 Aed 4 Iksir 10 Okoj 5 Tidar 6 Suga 5 Udnep 2 Suga Okoj Aed Iksir Udnep Tidar
Output
Aed & Iksir Win! Total Eaten: 70