



Problem D. Memory

Input file: standard input
Output file: standard output
Time limit: 1s
Balloon color: Green

We tried to create a task about space complexity... and this is the result.

You are trying to create n 1-dimension array. The i – th ($1 \leq i \leq n$) array among them has type t_i and its size is s_i . Please make a program that calculates the number of bytes that these n arrays occupy.

The size of each type in bytes is:

int	4
bool	1
char	1
double	8
float	4

Input

The input starts with a line containing an integer n ($1 \leq n \leq 10$). Next n lines describe the arrays. The i – th line contains a string t_i and ($t_i \in \{int, bool, char, double, float\}$) and a integer s_i ($1 \leq s_i \leq 10000$) which means the array has type t_i and its size is s_i .

Output

Print the number of bytes occupied by all the arrays.

Example

Sample Input 1	Sample Output 1
3 bool 2 char 3 double 4	37