

This is the input and output for test cases.

Input:

Output:

Ub	40	10	100	u100	60	100	5.0
Ab	50	15	140	eta	6.24	1 (def)	2.85
Ur	60	100	5	lam	51.26	10 (def)	36.31
zr	100	100	100	mu	0.86	0.44	0.998
phi_cw	0	0	0	eps	0.51	0.90	0.064