

## SPOJ Problem Set (main)

### 4169. TSereg

#### Problem code: TSEREG

Ikh mongol ulsyn ?ed ezen Čingis khaan negen aân dajnd âvakh tsergijg b?rd??len khošuuč žanžinaar Zevijg tomilž t??nd nijt tsergees dajnd orokh tsergijg b?rd??lekhdee daraakh khuuliar songokhyg zarligdžee. Ekhleed TSerg??dee neg egneend žagsaaž dugaarlaad tednees al' č khoër zeregtsež zogsson tserg??d oroog?j bajkhaar dajnd orokh tserg??dijg songokh kheregtej gežee. Gekhdee Čingis khaan zarligtaa Zev žanžind neg tsereg avaad č dajnd orž bolokhyg ankhaaruulžee. Tegvel ta ene khuuliar songokhod garakh âlgaataj songoltuudyn nijt toog togtookh program zokhiono uu!

#### Input

Orolt khed kheden tokhioldoluudtaj b?g??d ekhnij m?r?nd tokhioldlyn too  $T(1 \leq T \leq 20)$  bajrlana. Daraačijn m?r??ded tokhioldoluud buyuu tserg??dijn toonuud neg neg m?r?nd bajrlana. TSergijn toonuud  $x_i$  n' ( $2 < x_i < 10^9$ ) bajna.

#### Output

Garalt n' neg neg m?r?nd bajrlakh b?g??d tedgeer n' oroltyn tokhioldluudad khargalzakh songoltuudyn nijt toonuud bolno. Gekhdee tedgeerijg tus tus  $10^6$ -d khuvaagaad ?ldegdel??dijg khevlekh kheregtej.

#### Example

**Input :**

```
4
3
5
30
40
```

**Output :**

```
4
12
178308
914295
```

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Added by: Khuder

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Time limit: 1s

Source limit: 50000B

Languages: All

Resource: ACM 2009 subregional Mongolia