

Level 2



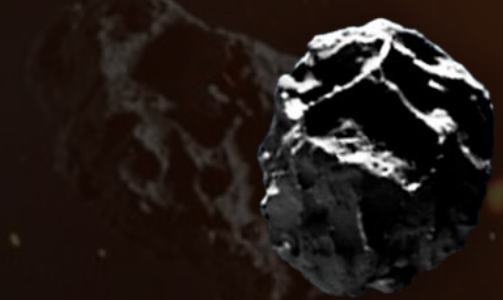
The drones have established an outpost within the bedrock of each asteroid. This will be the starting point of each mining operation.

- You are given a list of asteroids with an outpost on them
- The width of the minable rectangle is always 3
- The outpost is always in the middle of the first row of the asteroid
- **For each asteroid, dig a tunnel straight down**
- Your tunnel must start after the outpost and stop before the bedrock

```
##S##  
#X:#  
#X:#  
#X:#  
#X:#  
#####
```



Input

Name		Description	Example
N		Number of asteroids	<div><pre>2 3 4 ##S## #::: # #::: # #::: # #::: # ##### 3 3 ##S## #::: # #::: # #::: # #::: # #####</pre></div> 
repeated N times	Minable rectangle size	The width followed by height of the minable rectangle, separated by a space	
	Character representation	A paragraph of characters ‘#’ represents bedrock ‘.’ represents a minable cell ‘S’ represents the outpost	
	Empty line between asteroids		

Output

Name	Description	Example
Character representation (repeated N times)	A paragraph of characters ‘#’ represents bedrock ‘.’ represents a minable cell ‘S’ represents the outpost ‘X’ represents a tunnel cell	##S## #:X: # #:X: # #:X: # #:X: # ##### ##S## #:X: # #:X: # #:X: # #####
Empty lines between asteroids are recommended but optional		

Happy Mining!



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CONTEST

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