

Faculty at CodingBlocks loves to purchase smartphones and decides to play a game. Aayush and Harshit decides to shop for smartphones. Aayush purchases 1 smartphone, then Harshit purchases 2 smartphones, then Aayush purchases 3 smartphones, then Harshit purchases 4 smartphones, and so on. Once someone can't purchase more smartphones, he loses.

Aayush can purchase at most M smartphones and Harshit can purchase at most N smartphones. Who will win? Print "Aayush" and "Harshit" accordingly.

Input Format

The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows. Two integers M and N denoting the maximum possible number of smartphones Aayush and Harshit can purchase respectively.

Constraints

$1 \leq T \leq 1000$, $1 \leq M, N \leq 10^6$

Output Format

For each test case, output a single line containing one string – the name of the winner i.e. Aayush or Harshit

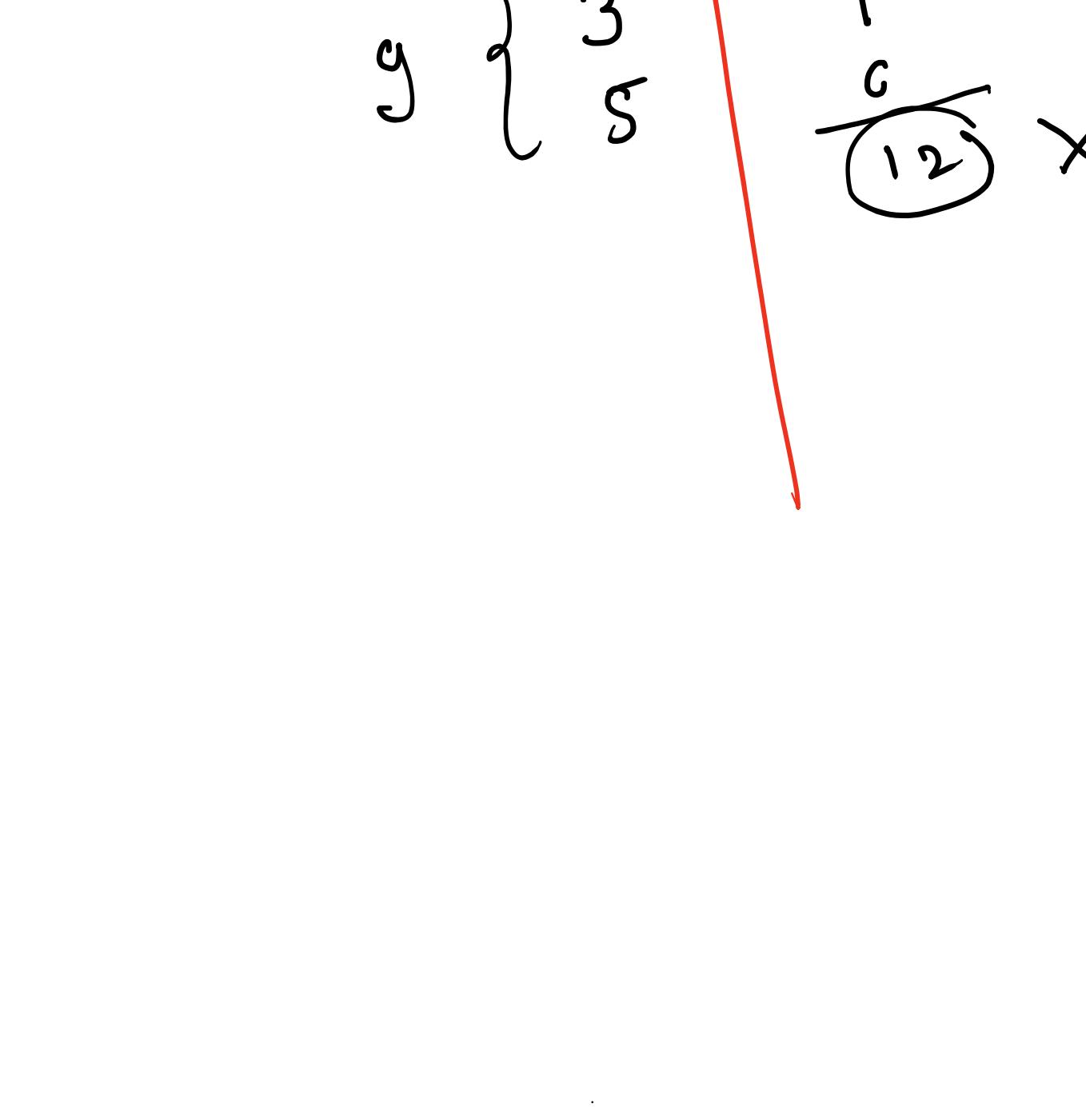
Sample Input

1
9 3
8 11

$$A = 1 \quad H = 2$$

$$3 \quad 4$$

$$5 \quad 6$$



$$A = 1 \quad N = 9 \quad M = 3$$

$$1 \quad 3$$

$$2 \quad 4$$

$$5 \quad 6$$

$$7 \quad 8$$

$$9 \quad 10$$

$$11 \quad 12$$

$$13 \quad 14$$

$$15 \quad 16$$

$$17 \quad 18$$

$$19 \quad 20$$

$$21 \quad 22$$

$$23 \quad 24$$

$$25 \quad 26$$

$$27 \quad 28$$

$$29 \quad 30$$

$$31 \quad 32$$

$$33 \quad 34$$

$$35 \quad 36$$

$$37 \quad 38$$

$$39 \quad 40$$

$$41 \quad 42$$

$$43 \quad 44$$

$$45 \quad 46$$

$$47 \quad 48$$

$$49 \quad 50$$

$$51 \quad 52$$

$$53 \quad 54$$

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$$69 \quad 70$$

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$$73 \quad 74$$

$$75 \quad 76$$

$$77 \quad 78$$

$$79 \quad 80$$

$$81 \quad 82$$

$$83 \quad 84$$

$$85 \quad 86$$

$$87 \quad 88$$

$$89 \quad 90$$

$$91 \quad 92$$

$$93 \quad 94$$

$$95 \quad 96$$

$$97 \quad 98$$

$$99 \quad 100$$

$$101 \quad 102$$

$$103 \quad 104$$

$$105 \quad 106$$

$$107 \quad 108$$

$$109 \quad 110$$

$$111 \quad 112$$

$$113 \quad 114$$

$$115 \quad 116$$

$$117 \quad 118$$

$$119 \quad 120$$

$$121 \quad 122$$

$$123 \quad 124$$

$$125 \quad 126$$

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$$175 \quad 176$$

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$$265 \quad 266$$