

# Dos Date (all languages available)

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[English version](#)

In DOS, current date is stored in encoded form to reduce the space. Date is encoded in a single integer number. The binary form of the number can be divided to decode the date parameters.

Date is a sequence of 23 bits. First 14-bits for year, next 4-bits for month and finally 5 bits for day.

e.g., 12 February 1990 can be encoded as -

1990 02 12 ---> (11111000110 0010 01100) Binary Form

---> (1018956) Decimal Form

Your task is simple. You only will have to decode date from the given decimal encoded form.

## Input

The input consists of **N** cases ( $0 < N < 1001$ ). The first line of the input contains only positive integer **N**. Then follow the cases. Each case consists of exactly one line with one positive integer **X**. This integer **X** is the encoded form which is to be decoded.

**X** will fit in Integer(C Int) range.

## Output

Output consist of exactly **N** lines of decoded form.

## Example

### Input:

5  
1024275  
1029012  
1017036  
903863  
802507

### Output:

19 August 2000  
20 December 2009  
12 June 1986  
23 May 1765  
11 June 1567

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