

## A. Deterministic Scheduling for Extended Reality over 5G and Beyond

time limit per test: 2 seconds  
memory limit per test: 1024 megabytes  
input: standard input  
output: standard output

### Background

Extended reality (XR) service is a promising application for future communications. In wireless communications, XR data are transmitted over radio between base stations and mobile terminals. A region is usually divided into multiple cells, each of which is equipped with a base station to serve users. One base station usually serves multiple users, and multiple base stations may serve one user at the same time.

### Task

The task of this competition is to design a scheduling algorithm for XR service. By properly allocating radio resources, we want to maximize the number of XR data frames that are successfully transmitted. A diagram is provided below for illustration: The transmission of a data frame is failed when it cannot be completely transmitted during the permitted transmission time window.

