# Задание 1

Определить APOE статус и риск болезни Альцгеймера для полногеномного сиквенса:

BAM (70Гб):

<https://storage.yandexcloud.net/genotek-testing/data/vi0006/vi0006.markdup.hg19.bam?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=wgMztS8ws2HPY6sgnw38%2F20240910%2Fru-central1%2Fs3%2Faws4_request&X-Amz-Date=20240910T170208Z&X-Amz-Expires=864000&X-Amz-Signature=673FB8F2B3259D4A5F2326BD88BD7980B1D508D1A2F55075379BF61BD2A6AF69&X-Amz-SignedHeaders=host>

BAI:

<https://storage.yandexcloud.net/genotek-testing/data/vi0006/vi0006.markdup.hg19.bai?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=wgMztS8ws2HPY6sgnw38%2F20240910%2Fru-central1%2Fs3%2Faws4_request&X-Amz-Date=20240910T170237Z&X-Amz-Expires=864000&X-Amz-Signature=955B8DC66CC6C474038D2DFF1D90E354CA9F21D631C6901B1AB032218143BA74&X-Amz-SignedHeaders=host>

# Задание 2

Найти человека с синдромом Клайнфельтера

[Data](https://storage.yandexcloud.net/genotek-testing/employees/trofimov/hse/seminar1/karyotypes/karyotypes_data.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=YCAJE1s9yHf9M_nK5vgQsitBD%2F20240910%2Fru-central1%2Fs3%2Faws4_request&X-Amz-Date=20240910T135246Z&X-Amz-Expires=345600&X-Amz-Signature=D06D56468CC48341F3EB945EF05A6DB3CA7B4361B5E50AD50C03C2EF686B0169&X-Amz-SignedHeaders=host)