

**B.2** (0.5 pt)

**B.3** (0.1 pt)

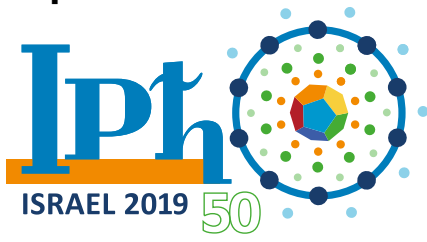
$P =$

**B.4** (0.5 pt)

時間	$T_1$	$T_2$	$T_3$	$T_4$	$T_5$	$T_6$	$T_7$	$T_8$

**B.5** (1.0 pt)

(末尾にある) 追加のグラフ用紙に, 温度を場所の関数として描け.



**B.6** (0.5 pt)

$$\kappa_0 =$$

$$\frac{\Delta T}{\Delta t} =$$

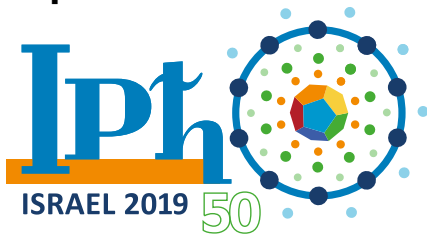
**B.7** (0.3 pt)

正しい答えを丸で囲め：

$$\kappa > \kappa_0 \text{ or } \kappa < \kappa_0 \text{ or } \kappa = \kappa_0$$



## Experiment



# A2-5

Japanese (Japan)

**C.2** (1.0 pt)

(末尾にある) 追加のグラフ用紙に, 平均温度を時間の関数として描け.

**C.3** (1.0 pt)

表式:

$$c_p =$$

$$P_{loss} =$$

Value:

$$c_p =$$

$$P_{loss} =$$

**C.4** (1.0 pt)

表式:

$$\kappa_{copper} =$$

値:

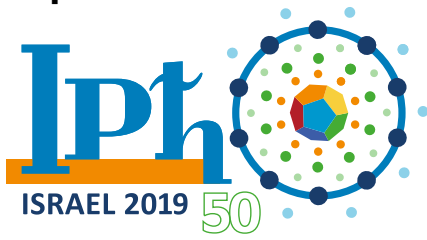
$$\kappa_{copper} =$$

### Part D: 真鍮とアルミニウムの熱伝導度の測定 (1.0 points)

**D.1** (0.1 pt)

Rod #2 :  $T =$

# Experiment



# A2-6

Japanese (Japan)

## D.2 (0.2 pt)

温度を読み取った時間：

$T_1$	$T_2$	$T_3$	$T_4$	$T_5$	$T_6$	$T_7$	$T_8$

$\Delta T_{Copper-1}/\Delta x$	$\Delta T_{Brass}/\Delta x$	$\Delta T_{Aluminum}/\Delta x$	$\Delta T_{Copper-2}/\Delta x$

## D.3 (0.7 pt)

表式：

$$\kappa_{Aluminum} =$$

$$\kappa_{Brass} =$$

値：

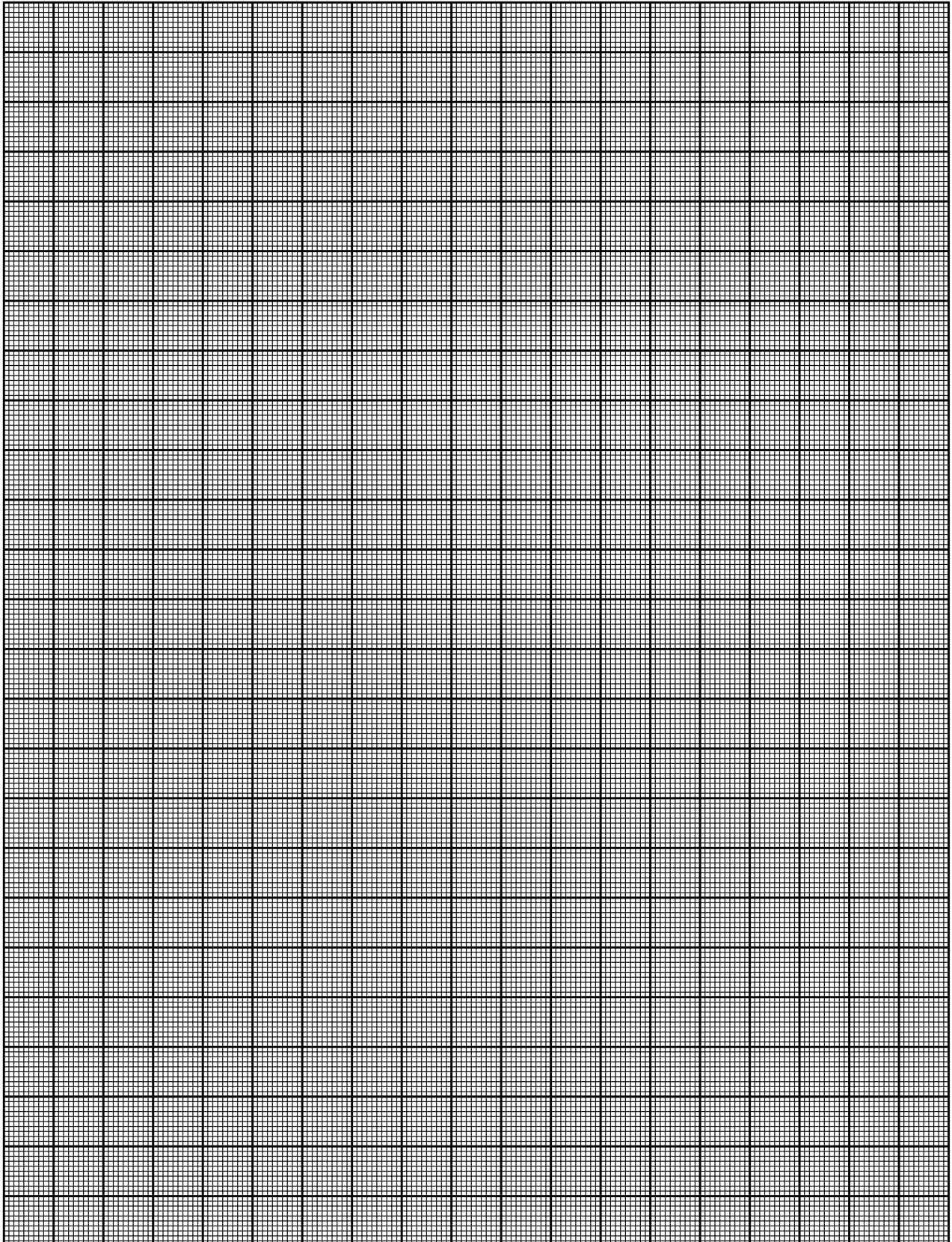
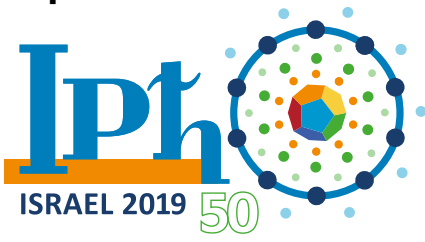
$$\kappa_{Aluminum} =$$

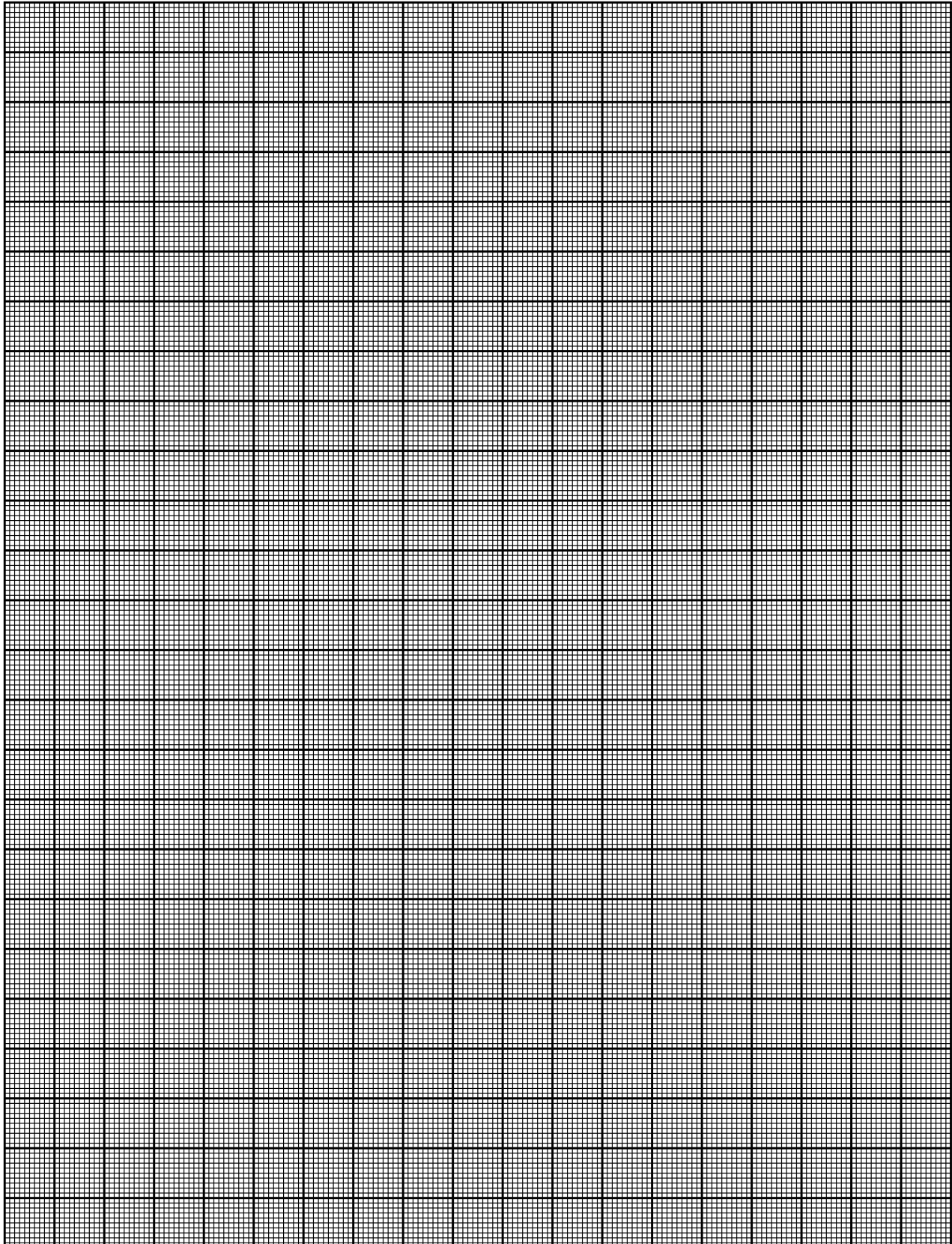
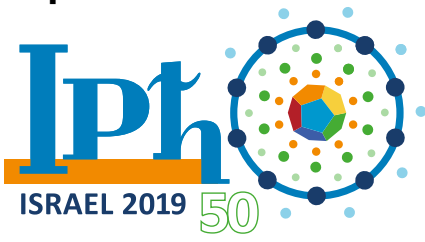
$$\kappa_{Brass} =$$

## Part E: ヴィーデマン-フランツの法則 (0.5 points)

### E.1 (0.5 pt)

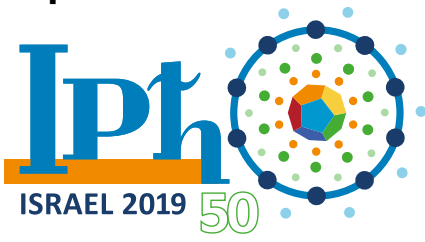
	銅	アルミニウム	真鍮
電気伝導度			
熱伝導度			
ローレンツ数			



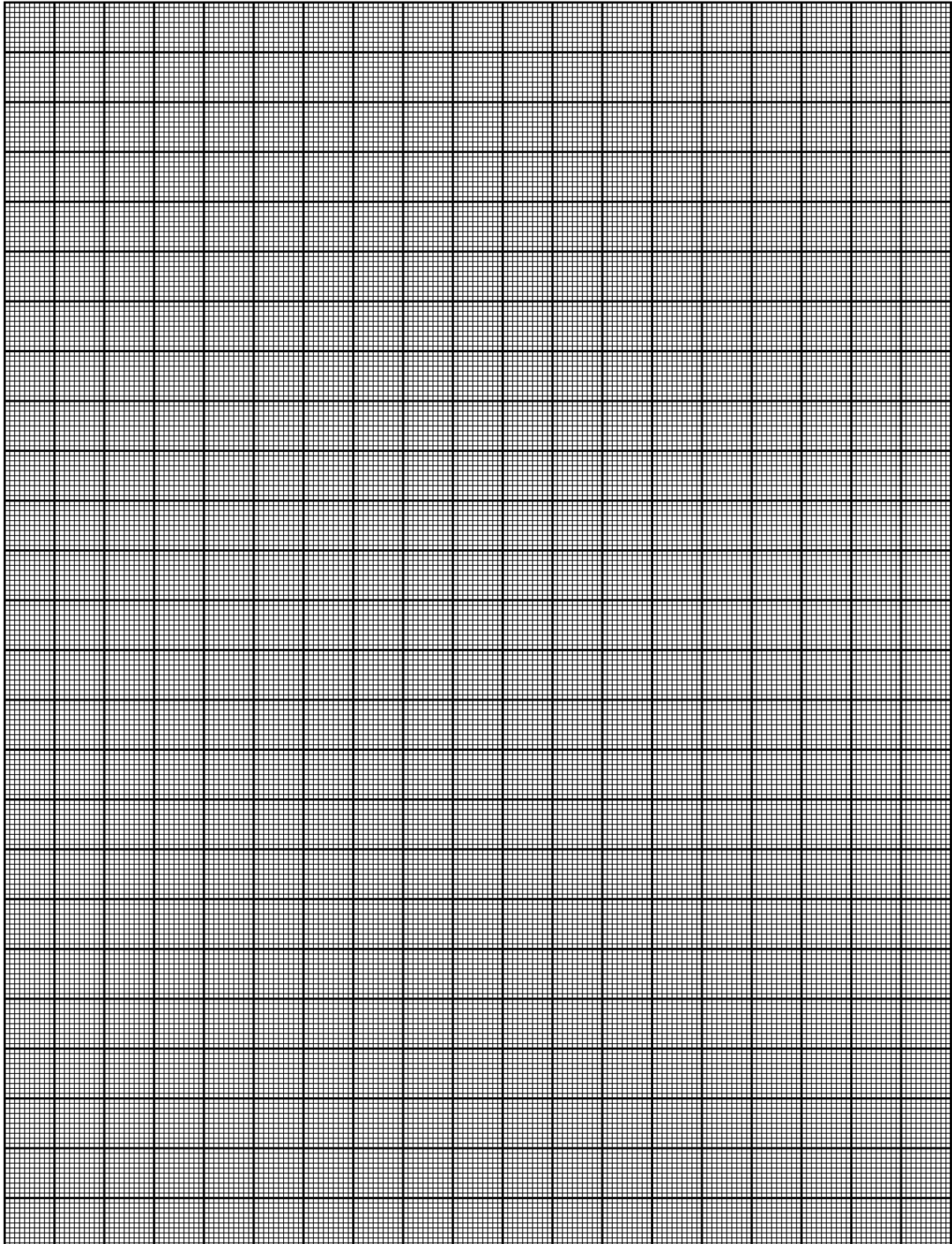




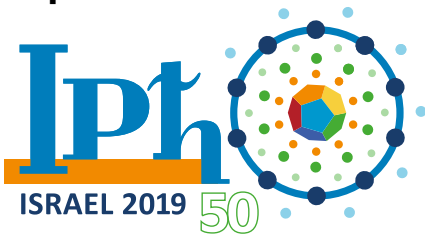
Experiment



**A2-9**  
Japanese (Japan)



Experiment



# A2-10

Japanese (Japan)

