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Integral Test Benchmark - Compiled Transcripts

Gemini CLI Agent

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Problem Statement

LLMs are asked to solve the following integral:

$$\int \frac{\tan^3(\ln(x))}{x} dx$$

Transcripts

Gemma3:1b

$$\begin{aligned} & \int \int L f e f t f \int \int I f f = \int \int \int i f n f t f \int \int t f a f n f 3 f (f l f n f (f x f) f) \int \int d f x f f . \int \\ & \int \int W f e f f c f a f n f \int u f s f e f f s f u f b f s f t f i f t f u f t f i f o f n f t f o f \\ & \int s f o f l f v f e f f t f h f i f s f \int i f n f t f e f g f r f a f l f . \int \int L f e f t f \int \int u f f = \\ & \int \int l f n f (f x f) f f . \int \int T f h f e f n f \int \int d f u f f = \int \int \int f f r f a f c f 1 f \int \int x f \int \int d f x f f \\ & . \int \int T f h f u f s f , \int \int d f x f f = \int \int x f \int \int d f u f f . \int \int \int S f u f b f s f t f i f t f u f \\ & t f i f n f g f \int i f n f t f o f f t f h f e f f i f n f t f e f g f r f a f l f , \int \int w f e f f \\ & g f e f t f : \int \int \int I f f = \int \int \int i f n f t f \int \int t f a f n f 3 f (f u f) \int \int (f x f \int \int d f u f) f f = \\ & \int \int \int i f n f t f \int \int t f a f n f 2 f (f u f) \int \int \int t f a f n f (f u f) \int \int d f u f f = \int \int \int i f n f t f \int \int \int s f e f c f f \\ & . \int \int \int L f e f t f \int \int v f f = \int \int \int t f a f n f (f u f) f f . \int \int T f h f e f n f \int \int d f v f f = \\ & \int \int \int s f e f c f 2 f (f u f) \int \int d f u f f . \int \int \int S f u f b f s f t f i f t f u f t f i f n f g f \int i f \\ & n f t f o f f t f h f e f f i f n f t f e f g f r f a f l f , \int \int w f e f f g f e f t f : \int \int \int I f f = \\ & \int \int \int i f n f t f \int \int s f e f c f 2 f (f u f) \int \int v f f 2 f d f u f f = \int \int \int i f n f t f v f f 2 f d f v f f = \\ & \int \int v f f 2 f f + \int \int C f f = \int \int \int t f a f n f 2 f (f u f) \int \int + \int \int C f f . \int \int \int N f o f w f f s f u f \\ & b f s f t f i f t f u f t f e f f b f a f c f k f \int \int u f f = \int \int l f n f (f x f) f f : \int \int \int I f f = \\ & \int \int \int t f a f n f 2 f (f l f n f (f x f) f) \int \int + \int \int C f f . \int \int \int \int T f h f u f s f , \int \int \int \int i f n f t f \int \int \int t f a f n f \\ & \int \int \int t f a f n f 2 f (f l f n f (f x f) f) \int \int + \int \int C f f . \int \int \int \int F f i f n f a f l f f A f n f \\ & s f w f e f r f : \int \int T f h f e f f f i f n f a f l f f a f n f s f w f e f r f f i f s f f \\ & \int \int \int b f o f x f e f d f \int \int \int t f a f n f 2 f (f l f n f (f x f) f) \int \int + \int \int C f f \int \end{aligned}$$

Gemma3:4b

$$\begin{aligned} & \int L \int e \int t \int f \int t \int h \int e \int f \int i \int n \int t \int e \int g \int r \int a \int l \int f \int b \int e \int f \int I \int = \int ? \int x \int t \int f \int a \int n \int f \\ & 3 \int (\int l \int n \int (\int x \int) \int) \int ? \int d \int x \int f \int L \int e \int t \int f \int u \int f \int = \int \int \int l \int n \int (\int x \int) \int \int , \int \int t \int h \int f \\ & e \int n \int \int \int f \int r \int a \int c \int f d \int u \int f \int d \int x \int f \int = \int \int \int f \int r \int a \int c \int f 1 \int \int x \int f \int , \int \int s \int o \int f \\ & \int d \int u \int f \int = \int \int \int f \int r \int a \int c \int f 1 \int \int x \int f \int d \int x \int f \int . \int \int S \int u \int b \int s \int t \int i \int t \int u \int t \int i \int f \\ & n \int g \int f \int t \int h \int e \int s \int e \int f \int i \int n \int t \int o \int f \int t \int h \int e \int f \int i \int n \int t \int e \int g \int r \int a \int l \int f , \int \int w \int f \\ & e \int f \int h \int a \int v \int e \int f \int I \int = \int ? \int t \int a \int n \int 3 \int (\int u \int) \int d \int u \int f \int N \int o \int w \int f \int w \int e \int f \\ & c \int a \int n \int f \int r \int e \int w \int r \int i \int t \int e \int f \int t \int h \int i \int s \int f \int a \int s \int f \int I \int = \int ? \int t \int a \int n \int 3 \int (\int u \int) \int d \int u \int f \\ & = \int ? \int t \int a \int n \int 2 \int (\int u \int) \int t \int a \int n \int (\int u \int) \int d \int u \int f \int W \int e \int f \int k \int n \int f \\ & o \int w \int f \int t \int h \int a \int t \int f \int \int \int t \int a \int n \int f 2 \int (\int u \int) \int f \int = \int \int \int s \int e \int c \int f 2 \int (\int u \int) \int \int - \int \int 1 \int \int , \\ & \int \int s \int o \int f \int I \int = \int ? \int (\int s \int e \int c \int 2 \int (\int u \int) \int ? \int 1 \int) \int t \int a \int n \int (\int u \int) \int d \int u \int f \int = \int \\ & ? \int t \int a \int n \int 2 \int (\int u \int) \int t \int a \int n \int (\int u \int) \int d \int u \int f \int A \int l \int t \int e \int r \int n \int a \int t \int i \int v \int f \\ & e \int l \int y \int f , \int \int w \int e \int f \int c \int a \int n \int f \int u \int s \int e \int f \int t \int h \int e \int f \int f \int a \int c \int t \int f \int t \int h \int a \int t \int f \\ & \int \int \int t \int a \int n \int f 2 \int (\int u \int) \int \int = \int \int \int s \int e \int c \int f 2 \int (\int u \int) \int \int - \int \int 1 \int \int . \int \int I \int = \int ? \int (\int s \int e \int c \int 2 \int (\int u \int) \int ? \int 1 \int) \int t \int a \int n \int (\int u \int) \int d \int u \int f \int = \int ? \int s \int e \int c \int 2 \int (\int u \int) \int t \int a \int n \int (\int u \int) \int d \int u \int f \int ? \int ? \int t \int a \int n \int (\int u \int) \int d \int u \int f \int F \int o \int r \int f \int t \int h \int e \int f \int f \int i \int f \end{aligned}$$

$$\begin{aligned}
& r f s f t f \int i f n f t f e f g f r f a f l f, \int f l f e f t f \int f v f f = \int f f t f a f n f (f u f) f f, \int \\
& f t f h f e f n f \int f f f r f a f c f d f v f f d f u f f = \int f f s f e f c f 2 f (f u f) f f, \int f s f \\
& o f f d f v f f = \int f f s f e f c f 2 f (f u f) f f d f u f f. \int f T f h f e f r f e f f o f r f e f, \int f \\
& f f i f n f t f f f s f e f c f 2 f (f u f) f f t f a f n f (f u f) f f d f u f f = \int f f i f n f t f f v f f d f v f f = \\
& \int f f f r f a f c f f v f f 2 f f 2 f f f + \int f C f 1 f f = \int f f f r f a f c f f t f a f n f 2 f (f u f) f f 2 f f f + \\
& \int f F f o f r f t f h f e f f s f e f c f o f n f d f f i f n f t f e f g f r f a f l f, \int f w f e f f h f a f \\
& v f e f f f i f n f t f f t f a f n f (f u f) f f d f u f f = \int f f i f n f t f f f f r f a f c f f s f i f n f (f u f) f f f \\
& \int f L f e f t f f w f f = \int f f c f o f s f (f u f) f f, \int f t f h f e f n f f f f r f a f c f d f w f f d f u f f = \\
& f f - \int f s f i f n f (f u f) f f, \int f s f o f f d f w f f = \int f - \int f s f i f n f (f u f) f f d f u f f, \int \\
& f a f n f d f f f s f i f n f (f u f) f f d f u f f = \int f - \int d f w f f. \int f T f h f u f s f, \int f \\
& f f i f n f t f f t f a f n f (f u f) f f d f u f f = \int f f i f n f t f f f r f a f c f f s f i f n f (f u f) f f f c f o f s. \\
& f f i f n f t f f f f r f a f c f f - \int d f w f f w f f = \int f - \int f i f n f t f f f r f a f c f 1 f f w f f d f w \\
& f f - \int f l f n f | f w f | f f + \int f C f 2 f f = \int f - \int f l f n f | f c f o f s f (f u f) f | f f + \int f C f 2 f f \\
& \int f S f o f, \int f I f = \int 2 f t f a f n f 2 f (f u f) f ? f ? f (f ? f l f n f ? f c f o f s f (f u f) \\
&) f ? f) f + \int C f = \int 2 f t f a f n f 2 f (f u f) f ? f + \int l f n f ? f c f o f s f (f u f) f ? f \\
& + \int C f \int W f e f f c f a f n f r f e f w f r f i f t f e f \int f t f a f n f 2 f (f u f) f f = \\
& \int f s f e f c f 2 f (f u f) f f - \int f 1 f f, \int f s f o f \int I f = \int 2 f s f e f c f 2 f (f u f) f ? f \\
& 1 f ? f + \int l f n f ? f c f o f s f (f u f) f ? f + \int C f = \int 2 f s f e f c f 2 f (f u f) f ? f ? f \\
& 2 f 1 f ? f + \int l f n f ? f c f o f s f (f u f) f ? f + \int C f \int H f o f w f e f v f e f r f, \int f \\
& w f e f f m f a f d f e f f a f n f f e f r f r f o f r f f i f n f f o f u f r f c f a f l f c f \\
& u f l f a f t f i f o f n f. \int f L f e f t f' s f f r f e f d f o f f t f h f e f f c f a f l f c f u f \\
& l f a f t f i f o f n f. \int f I f = \int ? f t f a f n f 3 f (f u f) f d f u f = \int ? f t f a f n f 2 f \\
& (f u f) f t f a f n f (f u f) f d f u f = \int ? f (f s f e f c f 2 f (f u f) f ? f 1 f) f t f a f n f \\
& (f u f) f d f u f \int I f = \int ? f s f e f c f 2 f (f u f) f t f a f n f (f u f) f d f u f ? f ? f t f \\
& a f n f (f u f) f d f u f = \int ? f s f e f c f 2 f (f u f) f t f a f n f (f u f) f d f u f ? f ? f t f \\
& a f n f (f u f) f d f u f \int L f e f t f f f v f f = \int f t f a f n f (f u f) f f, \int f t f h f e f n f \\
& f d f v f f = \int f s f e f c f 2 f (f u f) f f d f u f f. \int f ? f s f e f c f 2 f (f u f) f t f a f n f \\
& (f u f) f d f u f = \int ? f v f d f v f = \int 2 f v f 2 f ? f + \int C f 1 f ? f = \int 2 f t f a f n f 2 f \\
& (f u f) f ? f + \int C f 1 f ? f \int A f n f d f f f i f n f t f f t f a f n f (f u f) f f d f u f f = \\
& \int f f i f n f t f f f f r f a f c f f s f i f n f (f u f) f f f c f o f s f (f u f) f f d f u f f. \int f L f \\
& e f t f f f w f f = \int f c f o f s f (f u f) f f, \int f t f h f e f n f f d f w f f = \int f - \int f s f i f n f (f u f) f f d f u f f \\
& , \int f s f o f f f s f i f n f (f u f) f f d f u f f = \int f - \int d f w f f. \int f T f h f u f s f, \int f f i f n f t f f t f a f n f \\
& f f i f n f t f f f f r f a f c f f - \int d f w f f w f f = \int f - \int f i f n f t f f f r f a f c f 1 f f w f f d f w \\
& f f - \int f l f n f | f w f | f f + \int f C f 2 f f = \int f - \int f l f n f | f c f o f s f (f u f) f | f f + \int f C f 2 f f \\
& \int f I f = \int 2 f t f a f n f 2 f (f u f) f ? f ? f (f ? f l f n f ? f c f o f s f (f u f) f ? f) f + \int C f \\
& = \int 2 f t f a f n f 2 f (f u f) f ? f + \int l f n f ? f c f o f s f (f u f) f ? f + \int C f \int F f i f n f \\
& a f l f \int A f n f s w f e f r f: \int f T f h f e f f f i f n f a f l f a f n f s w f e f r f f i f s f f \\
& f f f r f a f c f f t f a f n f 2 f (f u f) f f 2 f f f + \int f l f n f | f c f o f s f (f u f) f | f f + \int f C f f
\end{aligned}$$

Gemma3:12b

$$\begin{aligned}
& \int f 1 f: \int f f L f e f t f f t f h f e f f i f n f t f e f g f r f a f l f f b f e f f I f = \int ? f t f \\
& a f n f ? f 3 f (f l f n f ? f (f x f) f) f x f d f x f I f f = \int f f i f n f t f f f f r f a f \\
& c f f t f a f n f 3 f (f l f n f (f x f) f) f f x f f d f x f I f = \int ? f x f t f a f n f \\
& 3 f (f l f n f (f x f) f) f ? f d f x f f L f e f t f f f u f f = \int f f l f n f (f x f) f f, \int f s f o f \\
& f d f u f f = \int f f f r f a f c f f 1 f f f x f f d f x f f. \int f T f h f e f n f f I f = \int ? f t f \\
& a f n f ? f 3 f (f u f) f d f u f I f f = \int f f i f n f t f f t f a f n f 3 f (f u f) f f d f \\
& u f I f = \int ? f t f a f n f 3 f (f u f) f d f u f \int W f e f f c f a f n f r f e f w f r f i f t f \\
& e f f f t f a f n f 3 f (f u f) f f a f s f f f t f a f n f 2 f (f u f) f f t f a f n f (f u f) f f = \\
& f f (f s f e f c f 2 f (f u f) f f - \int f 1 f) f f t f a f n f (f u f) f f, \int f s f o f f I f = \int ? f (f s f \\
& e f c f ? f 2 f (f u f) f ? f 1 f) f t f a f n f ? f (f u f) f d f u f = \int ? f s f e f c f ? f 2 f (f u f \\
&) f t f a f n f ? f (f u f) f d f u f ? f ? f t f a f n f ? f (f u f) f d f u f I f f = \int f f i f n f t f \\
& f (f f s f e f c f 2 f (f u f) f f - \int f 1 f) f f t f a f n f (f u f) f f d f u f f = \int f f i f \\
& n f t f f f s f e f c f 2 f (f u f) f f t f a f n f (f u f) f f d f u f f - \int f f i f n f t f f t f \\
& a f n f (f u f) f f d f u f I f = \int ? f (f s f e f c f 2 f (f u f) f ? f 1 f) f t f a f n f (f u f) f \\
& d f u f = \int ? f s f e f c f 2 f (f u f) f t f a f n f (f u f) f d f u f ? f ? f t f a f n f (f u f) f d f
\end{aligned}$$

$$\begin{aligned}
& u f \int F f o f r \int \int t f h f e f \int f f i f r f s f t f \int i f n f t f e f g f r f a f l f, \int f l f e f t f \int \\
& \int v f \int f = \int \int t f a f n f (\int u f) \int f, \int \int s f o f \int d f v f \int f = \int \int s f e f c f \int 2 f (\int u f) \int d f u f \int \\
& \cdot \int \int T f h f e f n f \int ? \int s f e f c f ? \int 2 f (\int u f) \int t f a f n f ? \int (\int u f) \int d f u f = \int ? \int v f d f \\
& v f = \int v f 2 f 2 f + \int C f 1 f = \int t f a f n f ? \int 2 f (\int u f) \int 2 f + \int C f 1 f \int i f n f t f \int f s f \\
& e f c f \int 2 f (\int u f) \int \int t f a f n f (\int u f) \int d f u f \int f = \int \int i f n f t f \int v f \int d f v f \int f = \int \\
& \int f f r f a f c f \int v f \int 2 f \int 2 f \int f + \int C f \int 1 f f = \int \int f f r f a f c f \int t f a f n f \int \\
& 2 f (\int u f) \int \int 2 f \int f + \int C f \int 1 f ? \int s f e f c f 2 f (\int u f) \int t f a f n f (\int u f) \int d f u f = \int \\
& ? \int v f d f v f = \int 2 f v f 2 f ? \int + \int C f 1 f ? \int f = \int 2 f t f a f n f 2 f (\int u f) \int ? \int + \int C f 1 f ? \int \\
& \int F f o f r \int \int t f h f e f \int s f e f c f o f n f d f \int i f n f t f e f g f r f a f l f, \int w f e f h f a f \\
& v f e f \int ? \int t f a f n f ? \int (\int u f) \int d f u f = \int ? \int s f i f n f ? \int (\int u f) \int c f o f s f ? \int (\int u f) \int \\
& d f u f \int i f n f t f \int t f a f n f (\int u f) \int d f u f \int f = \int \int i f n f t f \int f f r f a f c f \int s f \\
& i f n f (\int u f) \int \int c f o f s f (\int u f) \int d f u f ? \int t f a f n f (\int u f) \int d f u f = \int ? \int c f \\
& o f s f (\int u f) \int s f i f n f (\int u f) \int ? \int d f u f \int L f e f t f \int w f \int f = \int \int c f o f s f (\int u f) \int \\
& , \int s f o f \int d f w f \int f = \int \int - \int s f i f n f (\int u f) \int d f u f \int . \int T f h f e f n f \int ? \int s f i f \\
& n f ? \int (\int u f) \int c f o f s f ? \int (\int u f) \int d f u f = \int ? \int ? \int d f w f w f = \int ? \int l f n f ? \int ? \int w f \\
& ? \int + \int C f 2 f = \int ? \int l f n f ? \int ? \int c f o f s f ? \int (\int u f) \int ? \int + \int C f 2 f \int i f n f t f \int f f r f \\
& a f c f \int s f i f n f (\int u f) \int \int c f o f s f (\int u f) \int d f u f \int f = \int \int i f n f t f \int f f \\
& r f a f c f \int - \int d f w f \int w f \int f = \int \int - \int l f n f \int w f \int f + \int C f \int 2 f = \int \int - \int \\
& l f n f \int \int c f o f s f (\int u f) \int \int + \int C f \int 2 f ? \int c f o f s f (\int u f) \int s f i f n f (\int u f) \int \\
& ? \int d f u f = \int ? \int w f ? \int d f w f ? \int f = \int ? \int l f n f ? \int w f ? \int + \int C f 2 f ? \int f = \int ? \int l f n f ? \int \\
& c f o f s f (\int u f) \int ? \int + \int C f 2 f ? \int \int T f h f u f s f \int I f = \int t f a f n f ? \int 2 f (\int u f) \int 2 f \\
& ? \int (\int ? \int l f n f ? \int ? \int c f o f s f ? \int (\int u f) \int ? \int) \int + \int C f = \int t f a f n f ? \int 2 f (\int u f) \int 2 f \\
& + \int l f n f ? \int ? \int c f o f s f ? \int (\int u f) \int ? \int + \int C f I f = \int \int f f r f a f c f \int t f a f n f \int \\
& 2 f (\int u f) \int \int 2 f \int f - \int (\int - \int l f n f \int \int c f o f s f (\int u f) \int \int) \int + \int C f \int f = \int \\
& \int f f r f a f c f \int t f a f n f \int 2 f (\int u f) \int \int 2 f \int f + \int \int l f n f \int \int c f o f s f (\int u f) \\
&) \int \int + \int C f I f = \int 2 f t f a f n f 2 f (\int u f) \int ? \int ? \int (\int ? \int l f n f ? \int c f o f s f (\int u f) \\
&) \int ? \int) \int + \int C f = \int 2 f t f a f n f 2 f (\int u f) \int ? \int + \int l f n f ? \int c f o f s f (\int u f) \int ? \int + \int \\
& C f \int S f u f b f s f t f i f t f u f t f i f n f g f \int b f a f c f k f \int u f \int f = \int \int l f n f (\int x f) \int f \\
& , \int w f e f g f e f t f I f = \int t f a f n f ? \int 2 f (\int l f n f ? \int (\int x f) \int) \int 2 f + \int l f n f ? \int \\
& ? \int c f o f s f ? \int (\int l f n f ? \int (\int x f) \int) \int ? \int + \int C f I f = \int \int f f r f a f c f \int t f a f \\
& n f \int 2 f (\int l f n f (\int x f) \int) \int \int 2 f \int f + \int \int l f n f \int \int c f o f s f (\int l f n f (\int x f) \\
&) \int \int \int + \int C f I f = \int 2 f t f a f n f 2 f (\int l f n f (\int x f) \int) \int ? \int + \int l f n f ? \int c f o f \\
& s f (\int l f n f (\int x f) \int) \int ? \int + \int C f \int T f h f u f s f, \int ? \int t f a f n f ? \int 3 f (\int l f n f ? \int \\
& (\int x f) \int) \int x f d f x f = \int t f a f n f ? \int 2 f (\int l f n f ? \int (\int x f) \int) \int 2 f + \int l f n f ? \int ? \int c f \\
& o f s f ? \int (\int l f n f ? \int (\int x f) \int) \int ? \int + \int C f \int i f n f t f \int f f r f a f c f \int t f a f n f \\
& \int 3 f (\int l f n f (\int x f) \int) \int \int x f \int d f x f = \int \int f f r f a f c f \int t f a f n f \int 2 f \\
& (\int l f n f (\int x f) \int) \int \int 2 f \int f + \int \int l f n f \int \int c f o f s f (\int l f n f (\int x f) \int) \int \int \\
& \int + \int C f ? \int x f t f a f n f 3 f (\int l f n f (\int x f) \int) \int ? \int d f x f = \int 2 f t f a f n f 2 f (\int l f \\
& n f (\int x f) \int) \int ? \int + \int l f n f ? \int c f o f s f (\int l f n f (\int x f) \int) \int ? \int + \int C f \int F f i f n f \\
& a f l f \int A f n f s f w f e f r f: \int T f h f e f f f i f n f a f l f a f n f s f w f e f r f \int i f s f \\
& \int b f o f x f e f d f \int f f r f a f c f \int t f a f n f \int 2 f (\int l f n f (\int x f) \int) \int \int 2 f \int f + \int \int l f n f \int \int c f o f s f
\end{aligned}$$

Gemma3:27b

$$\begin{aligned}
& \int \int 1 f: \int \int \int L f e f t f \int t f h f e f \int g f i f v f e f n f \int i f n f t f e f g f r f a f l f \int b f e f \int \\
& \int I f \int f = \int \int i f n f t f \int f f r f a f c f \int t f a f n f \int 3 f (\int l f n f (\int x f) \int) \int \int x f \int d f x f \int \\
& \cdot \int \int L f e f t f \int u f \int f = \int \int l f n f (\int x f) \int f. \int \int T f h f e f n f \int \int f f r f a f c f \int d f u f \int d f x f \int f = \\
& \int \int f f r f a f c f \int 1 f \int \int x f \int f, \int s f o f \int d f u f \int f = \int \int f f r f a f c f \int 1 f \int \int x f \int d f x f \int \\
& \cdot \int \int S f u f b f s f t f i f t f u f t f i f n f g f \int t f h f i f s f \int i f n f t f o f t f h f e f \int i f n f t f \\
& e f g f r f a f l f, \int w f e f h f a f v f e f \int I f \int f = \int \int i f n f t f \int t f a f n f \int 3 f (\int u f) \int d f u f \int f = \\
& \int \int i f n f t f \int t f a f n f \int 2 f (\int u f) \int \int t f a f n f (\int u f) \int d f u f \int f = \int \int i f n f t f \int (\int s f e f c f \int 2 f (\int u \\
& f) \int f = \int \int i f n f t f \int s f e f c f \int 2 f (\int u f) \int \int t f a f n f (\int u f) \int d f u f \int - \int \int i f n f t f \int t f a f n f (\int u f) \\
& \cdot \int \int L f e f t f \int v f \int f = \int \int s f e f c f (\int u f) \int f. \int \int T f h f e f n f \int \int f f r f a f c f \int d f v f \int d f u f \int f = \\
& \int \int s f e f c f (\int u f) \int \int t f a f n f (\int u f) \int f, \int s f o f \int d f v f \int f = \int \int s f e f c f (\int u f) \int \int t f a f n f (\int u f) \\
& \cdot \int \int T f h f e f n f \int \int i f n f t f \int s f e f c f \int 2 f (\int u f) \int \int t f a f n f (\int u f) \int d f u f \int f = \\
& \int \int i f n f t f \int s f e f c f (\int u f) \int (\int s f e f c f (\int u f) \int \int t f a f n f (\int u f) \int) \int d f u f \int f = \int \int i f n f t f \int
\end{aligned}$$

$\int \int \int \int 3 f) \int \int T f h f e f r f e f f o f r f e f: \int \int \int \int \int * \int \int \int i f n f t f t f a f n f \int \int 3 f(f u f) \int d f u f \int =$
 $\int \int \int i f n f t f(\int \int s f e f c f \int 2 f(f u f) \int - \int \int 1 f) \int \int t f a f n f(f u f) \int d f u f \int \int \int \int \int * \int \int$
 $f = \int \int \int i f n f t f t f a f n f(f u f) \int \int s f e f c f \int 2 f(f u f) \int d f u f \int - \int \int i f n f t f t f a f n f(f u f) \int d f u$
 $\int \int \int \int 4 f) \int \int F f o f r f t f h f e f f f f i f r f s f t f i f n f t f e f g f r f a f l f, \int \int l f$
 $e f t f \int \int v f 1 f f = \int \int t f a f n f(f u f) \int \int \int \int \int * \int \int T f h f e f n f \int \int d f v f 1 f f =$
 $\int \int \int s f e f c f \int 2 f(f u f) \int d f u f \int, \int \int g f i f v f i f n f g f \int u f s f: \int \int \int \int \int * \int \int$
 $\int \int i f n f t f t f a f n f(f u f) \int \int s f e f c f \int 2 f(f u f) \int d f u f \int = \int \int \int i f n f t f v f 1 f d f v f 1 f f =$
 $\int \int \int f r f a f c f \int 1 f \int \int 2 f v f 1 f \int 2 f f = \int \int \int f r f a f c f \int 1 f \int \int 2 f \int \int t f a f n f \int 2 f(f u f) \int \int$
 $\int \int \int \int 5 f) \int \int F f o f r f t f h f e f s f e f c f o f n f d f i f n f t f e f g f r f a f l f: \int \int \int \int$
 $\int \int * \int \int \int i f n f t f t f a f n f(f u f) \int d f u f \int = \int \int - \int \int l f n f \int \int c f o f s f(f u f) \int \int \int + \int \int C f \int$
 $\int \int \int \int 6 f) \int \int C f o f m f b f i f n f i f n f g f t f h f e f r f e f s f u f l f t f s f: \int \int \int \int \int$
 $* \int \int \int i f n f t f t f a f n f \int 3 f(f u f) \int d f u f \int = \int \int \int f r f a f c f \int 1 f \int \int 2 f \int \int t f a f n f \int 2 f(f u f) \int \int +$
 $\int \int \int \int 7 f) \int \int S f u f b f s f t f i f t f u f t f i f n f g f \int b f a f c f k f \int \int u f \int =$
 $\int \int \int l f n f(\int x f) \int \int: \int \int \int \int \int * \int \int \int i f n f t f f r f a f c f \int \int t f a f n f \int 3 f(\int l f n f(\int x f) f) \int \int x f$
 $\int \int \int f r f a f c f \int 1 f \int \int 2 f \int \int t f a f n f \int 2 f(\int l f n f(\int x f) f) \int \int + \int \int l f n f \int \int c f o f s f(\int l f n f(\int x$
 $\int \int \int T f h f e f r f e f f o f r f e f, \int \int \int \int \int i f n f t f t f a f n f \int 3 f(\int l f n f$
 $(\int x f) f) \int / \int x f \int d f x f \int = \int \int \int f r f a f c f \int 1 f \int \int 2 f \int \int t f a f n f \int 2 f(\int l f$
 $n f(\int x f) f) \int \int + \int \int \int l f n f \int \int c f o f s f(\int l f n f(\int x f) f) \int \int \int + \int \int C f \int \int$

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$\int T f o f \int s f o f l f v f e f \int t f h f e f \int i f n f t f e f g f r f a f l f \int \int \int \int \int \int \int i f n f$
 $t f \int \int f f r f a f c f \int \int t f a f n f \int 3 f(\int l f n f \int x f) \int \int \int x f \int \int \int, \int \int d f x f, \int \int \int$
 $\int \int \int \int \int w f e f \int c f a f n f \int u f s f e f \int a f \int s f u f b f s f t f i f t f u f t f i f o f n f \int$
 $m f e f t f h f o f d f. \int \int H f e f r f e f' f s f \int a f \int s f t f e f p f - \int b f y f - \int s f t f e f$
 $p f \int s f o f l f u f t f i f o f n f: \int \int \int \int \int 1 f. \int \int * \int \int S f u f b f s f t f i f t f u f t f i f$
 $o f n f * \int \int: \int \int \int \int \int L f e f t f \int \int (\int u f \int = \int \int \int l f n f \int x f \int \int) \int. \int \int T f h f$
 $e f n f, \int \int t f h f e f \int d f e f r f i f v f a f t f i f v f e f \int o f f f \int \int (\int u f \int \int) \int w f$
 $i f t f h f \int r f e f s f p f e f c f t f \int t f o f \int \int (\int x f \int \int) \int \int i f s f \int \int \int \int \int \int \int$
 $\int \int f f r f a f c f \int d f u f \int d f x f \int \int = \int \int \int f r f a f c f \int 1 f \int \int x f \int \int \int i f m f p f$
 $l f i f e f s f \int d f u f \int = \int \int \int f r f a f c f \int 1 f \int \int x f \int \int d f x f. \int \int \int \int \int \int \int \int$
 $\int 2 f. \int \int * \int \int R f e f w f r f i f t f e f \int t f h f e f \int I f n f t f e f g f r f a f l f * \int \int: \int \int$
 $\int \int \int S f u f b f s f t f i f t f u f t f i f n f g f \int \int (\int u f \int \int) \int \int a f n f d f \int \int (\int d f$
 $u f \int \int) \int \int i f n f t f o f \int t f h f e f \int o f r f i f g f i f n f a f l f \int i f n f t f e f g f r f a f$
 $l f, \int \int w f e f \int g f e f t f \int \int \int \int \int \int \int \int \int \int i f n f t f \int \int t f a f n f \int 3 f(f u f) \int \int$
 $\int, \int \int d f u f. \int \int \int \int \int \int \int \int \int 3 f. \int \int * \int \int S f i f m f p f l f i f f y f \int t f h f e f$
 $\int I f n f t f e f g f r f a f n f d f * \int \int: \int \int \int \int \int R f e f c f a f l f l f \int t f h f a f t f \int \int$
 $(\int \int t f a f n f \int 3 f(f u f) \int \int = \int \int \int t f a f n f \int 2 f(f u f) \int \int c f d f o f t f \int \int t f$
 $a f n f(f u f) \int \int) \int. \int \int W f e f \int c f a f n f \int u f s f e f \int t f h f e f \int i f d f e f n f t f$
 $i f t f y f \int \int (\int \int t f a f n f \int 2 f(f u f) \int \int = \int \int s f e f c f \int 2 f(f u f) \int \int - \int \int 1 f \int$
 $\int) \int \int t f o f \int r f e f w f r f i f t f e f \int t f h f e f \int i f n f t f e f g f r f a f n f d f: \int \int \int$
 $\int \int \int \int \int \int \int \int \int t f a f n f \int 3 f(f u f) \int \int = \int \int (\int s f e f c f \int 2 f(f u f) \int \int - \int \int 1 f$
 $\int) \int \int t f a f n f(f u f) \int \int = \int \int s f e f c f \int 2 f(f u f) \int \int t f a f n f(f u f) \int \int - \int \int$
 $\int t f a f n f(f u f) \int. \int \int \int \int \int \int \int \int \int 4 f. \int \int * \int \int I f n f t f e f g f r f a f t f e f$
 $T f e f r f m f \int b f y f \int T f e f r f m f * \int \int: \int \int \int \int \int N f o f w f, \int \int i f n f t f e f g f$
 $r f a f t f e f \int e f a f c f h f \int t f e f r f m f \int s f e f p f a f r f a f t f e f l f y f: \int \int \int \int \int$
 $- \int \int F f o f r f \int t f h f e f \int f f i f r f s f t f \int t f e f r f m f, \int \int \int (\int \int s f e f c f \int 2 f$
 $(\int u f) \int \int \int t f a f n f(f u f) \int \int) \int, \int \int w f e f \int c f a f n f \int u f s f e f \int t f h f e f$
 $s f u f b f s f t f i f t f u f t f i f o f n f \int \int (\int v f \int = \int \int s f e f c f(f u f) \int \int) \int. \int \int$
 $T f h f e f n f, \int \int \int (\int d f v f \int = \int \int s f e f c f(f u f) \int \int \int t f a f n f(f u f) \int \int, \int$
 $\int d f u f \int \int) \int, \int \int a f n f d f \int t f h f e f \int i f n f t f e f g f r f a f l f \int b f e f c f o f m f$
 $e f s f \int \int \int \int \int \int \int \int \int \int \int i f n f t f \int \int s f e f c f \int 2 f(f u f) \int \int \int t f a f n f$
 $(\int u f) \int \int, \int \int d f u f \int = \int \int \int i f n f t f v f \int \int, \int \int d f v f \int = \int \int f f r f a f c f$
 $\int v f \int 2 f \int \int 2 f \int \int + \int \int C f \int 1 f \int = \int \int \int f r f a f c f \int \int s f e f c f \int 2 f(f u f) \int \int$
 $\int 2 f \int \int + \int \int C f \int 1 f. \int \int \int \int \int \int \int \int \int \int \int \int - \int \int F f o f r f \int t f h f e f \int s f e f$

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