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419 Lafayette Street ^[2]

Kasparov versus Deep Thought 1989,

was a two-game exhibition match between human [world champion Garry Kasparov](#) and [computer world champion Deep Thought](#) on October 22, [1989](#), at [New York Academy of Art](#), at that time 419 [Lafayette Street](#) in [Greenwich Village, New York City](#) ^[1].

Kasparov won both games quite easily.

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Quotes

from *A Grandmaster Chess Machine* ^[3]:

In October of 1989 an experimental six-processor version of Deep Thought played a two-game exhibition match against Kasparov in New

York City. Although the new version was capable of searching more than two million positions per second, Kasparov disposed of it quite easily. The result was not un-expected, but Deep Thought's play was rather disappointing.

Games

Comments by [Peter Jansen](#) ^[4] ^[5]

Game 1

In game 1, DT did not know what to do with its fairly good opening position. Kasparov gradually took charge, built up pressure and calmly and cautiously maneuvered his pieces to their optimal squares until the position was ripe for the kill. Only at move 40 did DT notice something was seriously wrong.

[Event "Kasparov vs Deep Thought 1989"]

[Site "New York"]

[Date "1989.10.22"]

[Round "1"]

[White "Deep Thought"]

[Black "Garry Kasparov"]

[Result "0-1"]

1.e4 c5 2.c3 e6 3.d4 d5 4.exd5 exd5 5.Nf3 Bd6 6.Be3 c4 7.b3
cxb3 8.axb3 Ne7 9.Na3 Nbc6 10.Nb5 Bb8 11.Bd3 Bf5 12.c4 O-O
13.Ra4 Qd7 14.Nc3 Bc7 15.Bxf5 Qxf5 16.Nh4 Qd7 17.O-O Rad8
18.Re1 Rfe8 19.c5 Ba5 20.Qd3 a6 21.h3 Bxc3 22.Qxc3 Nf5 23.Nxf5
Qxf5 24.Ra2 Re6 25.Rae2 Rde8 26.Qd2 f6 27.Qc3 h5 28.b4 R8e7
29.Kh1 g5 30.Kg1 g4 31.h4 Re4 32.Qb2 Na7 33.Qd2 R4e6 34.Qc1
Nb5 35.Qd2 Na3 36.Qd1 Kf7 37.Qb3 Nc4 38.Kh2 Re4 39.g3 Qf3
40.b5 a5 41.c6 f5 42.cxb7 Rxb7 43.Kg1 f4 44.gxf4 g3 45.Qd1
Rbe7 46.b6 gxf2 47.Rxf2 Qxd1 48.Rxd1 Rxe3 49.Rg2 Nxb6 50.Rg5
a4 51.Rxh5 a3 52.Rd2 Re2 0-1

Game and short analyze on Lichess.org : <https://fr.lichess.org/j0Vfex0w>

Game 2

After showing his strategic superiority in game 1, Kasparov proceeded to outcalculate DT in game 2. DT neglected the development of its pieces rather pitifully, and Kasparov put the position on fire (beginning with 10 Qd4), eventually winning DT's queen (18 Bc6). With two pieces and two pawns for the queen it didn't look all that bad yet, but Kasparov finished the job effortlessly.

```
[Event "Kasparov vs Deep Thought 1989"]
[Site "New York"]
[Date "1989.10.22"]
[Round "2"]
[White "Garry Kasparov"]
[Black "Deep Thought"]
[Result "1-0"]
```

```
1.d4 d5 2.c4 dxc4 3.e4 Nc6 4.Nf3 Bg4 5.d5 Ne5 6.Nc3 c6 7.Bf4
Ng6 8.Be3 cxd5 9.exd5 Ne5 10.Qd4 Nxf3+ 11.gxf3 Bxf3 12.Bxc4
Qd6 13.Nb5 Qf6 14.Qc5 Qb6 15.Qa3 e6 16.Nc7+ Qxc7 17.Bb5+ Qc6
18.Bxc6+ bxc6 19.Bc5 Bxc5 20.Qxf3 Bb4+ 21.Ke2 cxd5 22.Qg4 Be7
23.Rhc1 Kf8 24.Rc7 Bd6 25.Rb7 Nf6 26.Qa4 a5 27.Rc1 h6 28.Rc6
Ne8 29.b4 Bxh2 30.bxa5 Kg8 31.Qb4 Bd6 32.Rxd6 Nxd6 33.Rb8+
Rxb8 34.Qxb8+ Kh7 35.Qxd6 Rc8 36.a4 Rc4 37.Qd7 1-0
```

Game and short analyze on Lichess.org : <https://fr.lichess.org/119BGxUL>

See also

- [ACM 1989 - Deep Preparation](#)
- [Levy versus Deep Thought 1989](#)
- [Deep Blue](#)
- [Kasparov versus Deep Blue 1996](#)
- [Kasparov versus Deep Blue 1997](#)

Publications

- [Chess-Playing Computer Closing In on Champions](#) by [Robert Byrne](#) [New York Times](#), September 26, 1989
- [Menschliche Ehre gerettet](#), [Der Spiegel](#) 44/1989, October 30, 1989 (German) about the 1989 Kasparov match
- The Editors (1989). *Champ meets Champ*. [ICCA Journal](#), Vol. 12, No. 4
- [Ben Mittman](#) (1989). *Deep Preparation*. [ICCA Journal](#), Vol. 12, No. 4 ^[6]
- [Feng-hsiung Hsu](#), [Thomas Anantharaman](#), [Murray Campbell](#), [Andreas Nowatzyk](#) (1990). A

Grandmaster Chess Machine. [Scientific American](#), Vol. 263, No. 4, pp. 44-50. ISSN 0036-8733.
[Online Reprint](#)

Forum Posts

- [DT - Kasparov : 0-2](#) by [Peter Jansen](#), [rec.games.chess](#), October 23, 1989
- ["The chip vs the Chess Master" 1989 documentary](#) by [Vincent Lejeune](#), [CCC](#), August 27, 2013

External Links

- Kasparov versus Deep Thought documentary, [YouTube](#) Videos
The Chip vs the Chess Master, written and produced by [Irv Drasnin](#), [Cinematheque Luxembourg](#), [The Kurzweil Foundation](#), [Twentieth Century Fox Movietonews Inc.](#), featuring [Thomas Anantharaman](#), [Hans Berliner](#), [Murray Campbell](#), [Feng-hsiung Hsu](#), [Allen Newell](#), [Jonathan Schaeffer](#), [Herbert Simon](#), [Ken Thompson](#), [Robert Byrne](#), [Anatoly Karpov](#), [Garry Kasparov](#), [Brad Leithauser](#), [Shelby Lyman](#), [Yasser Seirawan](#), [Michael Valvo](#), [Patrick Wolff](#), et al.

References

1. [^] [Chess-Playing Computer Closing In on Champions](#) by [Robert Byrne](#) [New York Times](#), September 26, 1989
2. [^] [19 Lafayette Street, New York, NY 10003-7033 – Property details on Showcase.com](#)
3. [^] [Feng-hsiung Hsu](#), [Thomas Anantharaman](#), [Murray Campbell](#), [Andreas Nowatzyk](#) (1990). A *Grandmaster Chess Machine*. [Scientific American](#), Vol. 263, No. 4, pp. 44-50. ISSN 0036-8733.
[Online Reprint](#)
4. [^] [DT - Kasparov : 0-2](#) by [Peter Jansen](#), [rec.games.chess](#), October 23, 1989
5. [^] [Garry Kasparov vs Deep Thought \(Computer\) \(1989\)](#) from [chessgames.com](#)
6. [^] [Hans Berliner's ACM 1989 opening preparation](#) versus [Deep Thought](#), following game 2 of Kasparov versus Deep Thought

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Allen Newell	Jun 12, 2017
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ICGA Journal	Dec 21, 2017

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