Discuss C++ Template Downcast

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Original Discuss



The problem

```
τεμπλατε <βοολ Τεστ, χλασσ Τψπε = σοιδ>
 1
    στρυχτ εναβλε ιφ { };
 3
 4 τεμπλατε<χλασσ Τψπε>
    στρυχτ εναβλε ιφ<τρυε, Τψπε> {
 5
 6
       τψπεδεφ Τψπε τψπε;
 7
    };
 8
 9
    χλασσ A \{ \};
    χλασσ B : A { };
10
11
12
    τεμπλατε <τψπεναμε Τ>
13
    struct traits \{ static int const value = \phi \alpha \lambda \sigma \epsilon; \};
14
15
    τεμπλατε <>
16
    struct traits A > \{ static interpose value = true; \};
17
    τεμπλατε <τψπεναμε Τ>
18
    σοιδ φ(T, τψπεναμε εναβλε ιφ<τραιτσ<T>::<math>σαλυε>::τψπε* = 0
19
20
21
    τεμπλατε <>
    \text{void} \phi < A > (A, \text{enable if} < \text{traits} < A > :: \text{vable} :: \text{type}) \{ \}
22
23
24
```

```
2.5
       τεμπλατε <τψπεναμε Τ>
   26
   27
       χλασσ ΒΒ {};
   28
   29
       τεμπλατε <τψπεναμε Τ>
       γλασσ \Delta \Delta : πυβλιγ BB<T> {}:
   30
   31
       32
   33
       int main(int argy, char * argo[])
   34
   35
       {
         Α α; Β β;
   36
         \Delta\Delta < \lambda o v \gamma > \delta \delta;
   37
         //\phi(\beta);
   38
   39
         \phi\phi(\delta\delta);
   40
      }
        *▲ ▲▼□$■**
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+♦▼*■ ♦♦ *▼$●●□)** ♦♦<BB<λονγ>> <sup>®</sup>
```

My answer to the problem

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First we discuss ff

```
1 \Delta\Delta < \lambda o \nu \gamma > \delta \delta;
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   1 \phi\phi(\delta\delta);
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Then we discuss f
1 φ(β);
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