

```
PROGRAM kadai3_2
```

```
    IMPLICIT NONE
```

```
    REAL(8) :: s, dx, x, y
```

```
    INTEGER :: I, N
```

```
    READ *, N
```

```
    dx = 1.0d0 / DBLE(N)
```

```
    s = 0.0d0
```

```
    DO I = 0, N
```

```
        x = dx * DBLE(I)
```

```
        y = x * (x - 1.0d0) * (x - 2.0d0)
```

```
        IF (I == 0 .OR. I == N) THEN
```

```
            s = s + 0.5d0 * y
```

```
        ELSE
```

```
            s = s + y
```

```
        END IF
```

```
    END DO
```

```
    s = s * dx
```

```
    PRINT *, "S = ", s
```

```
END PROGRAM kadai3_2
```